

Oracle® Communications

Cloud Native Core Licensing Information User Manual



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The Oracle logo, consisting of a solid red square with the word "ORACLE" in white, uppercase, sans-serif font centered within it.

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Introduction

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Licensing Information

Description of Product Editions and Permitted Features

Prerequisite Products

Entitled Products and Restricted Use Licenses

Product	Sub product	Licensing Information
Oracle Communications Cloud Native Core	Oracle Communications Cloud Native Core, Network Function Cloud Native Environment - per 25K Active Subscribers	<p>Description: This subproduct adds the following features to the Oracle Communications Cloud Native Core.</p> <p>The Network Function Cloud Native Environment provides tools and capabilities to run cloud native network functions in the network.</p> <p>This license is mandatory and needs to be purchased with other Cloud Native Core Network Functions.</p> <p>Given license provide access to following capabilities: Cloud native platform, Operations Services Overlay (OSO), Console, Data Tier (MySQL Carrier Grade edition cluster), Service Mesh</p> <p>Network Function Cloud Native Environment needs to be ordered once per purchased entity. Network Function Cloud Native Environment is not applicable for any Network Functional features. The following list of examples are the features applicable to NFs and not to CNE: Interworking and Mediation Function (IWF) and Subscriber Location Function (SLF).</p> <p>Prerequisites: Any one of the following licenses is prerequisite to license and use Oracle Communications Cloud Native Core , Network Function Cloud Native Environment - per 25K Active Subscribers :</p> <ul style="list-style-type: none"> • Oracle Communications Cloud Native Core, Authentication Server Function - per 25K Active Subscribers • Oracle Communications Cloud Native Core, Binding Support Function - per 25K Active Subscribers • Oracle Communications Cloud Native Core, Converged Policy - per 25K Active Subscribers • Oracle Communications Cloud Native Core, Converged Signaling - per 25K Active Subscribers • Oracle Communications Cloud Native Core, Diameter Routing Agent - per 25K Active Subscribers • Oracle Communications Cloud Native Core, Network Exposure Function - per 25K Active Subscribers • Oracle Communications Cloud Native Core , Network Repository Function - per 25K Active Subscribers • Oracle Communications Cloud Native Core, Network Slice Selection Function - per 25K Active Subscribers • Oracle Communications Cloud Native Core, Policy Control Function - per 25K Active Subscribers

Product	Sub product	Licensing Information
		<ul style="list-style-type: none"> • Oracle Communications Cloud Native Core, Policy and Charging Rules Function - per 25K Active Subscribers • Oracle Communications Cloud Native Core, Routing and Selection Domain - per 25K Active Subscribers • Oracle Communications Cloud Native Core, Security Edge Protection Proxy - per 25K Active Subscribers • Oracle Communications Cloud Native Core , Service Communication Proxy - per 25K Active Subscribers • Oracle Communications Cloud Native Core, Unified Data Repository - per 25K Active Subscribers • Oracle Communications Cloud Native Core, Unified Data Management - per 25K Active Subscribers • Oracle Communications Cloud Native Core, Unstructured Data Storage Function - per 25K Active Subscribers <p>Entitled Products and Restricted Use Licenses:</p> <p>A license to Oracle Communications Cloud Native Core, Network Function Cloud Native Environment - per 25K Active Subscribers includes a restricted use license to MySQL Cluster Carrier Grade Edition. MySQL Cluster Carrier Grade Edition may be used solely to deploy and run Oracle Communications Cloud Native Core network functions.</p>
	<p>Oracle Communications Cloud Native Core, Authentication Server Function - per 25K Active Subscribers</p>	<p>Description: This subproduct adds the following features to the Oracle Communications Cloud Native Core.</p> <p>The Authentication Server Function (AUSF) is responsible of the primary authentication and key agreement procedures carried out to enable mutual authentication between UE and network. It provides keying material that can be used between the UE and network in subsequently security procedures. This license is based on per 25k active subscribers perpetual.</p> <p>Prerequisites: The following license is prerequisite to license and use Oracle Communications Cloud Native Core, Authentication Server Function - per 25K Active Subscribers:</p> <p>Oracle Communications Cloud Native Core, Unified Data Management - per 25K Active Subscribers</p> <p>Counting Mechanism: Since Unified Data Management is a prerequisites for AUSF. Unified Data Management counts unique device identifiers that it has activated.</p>

Product	Sub product	Licensing Information
	Oracle Communications Cloud Native Core, Binding Support Function - per 25K Active Subscribers	<p>Description: This subproduct adds the following features to the Oracle Communications Cloud Native Core.</p> <p>The Binding Support Function (BSF) provides session binding functionality, which ensures request for session reaches the relevant PCF holding the session information.</p> <p>This service:</p> <ul style="list-style-type: none"> - Allows Network Function (NF) consumers to register, update and remove the binding information; and - Allows Network Function (NF) consumers to retrieve the binding information. <p>Prerequisites: None</p> <p>Counting Mechanism: BSF counts unique device identifiers as it processes messages.</p>
	Oracle Communications Cloud Native Core, Converged Policy - per 25K Active Subscribers	<p>Description: This functionality provides the Right to Use the Cloud Native Policy and Charging Rules Function (cnPCRF) and Cloud Native Policy Control Function (PCF) NFs. The Policy Control Function (PCF) allows the customer to support centralized policy management in their 5G core network. The Cloud Native Policy and Charging Rules Function (cnPCRF) allows the customer to support centralized policy management in their 4G core network.</p> <p>Overall this converged license enables customers to perform Policy management for 4G and 5G Networks as a complete solution and also enables customers to transition subscribers from 4G to 5G over time.</p> <p>Prerequisites: None</p> <p>Counting Mechanism: cnPCRF and PCF counts unique device identifiers as it processes messages.</p>
	Oracle Communications Cloud Native Core, Converged Signaling - per 25K Active Subscribers	<p>Description: This functionality provides the Right to Use the Cloud Native Diameter Routing Agent (cnDRA), Service Communication Proxy (SCP), Network Repository Function (NRF), and InterWorking and Mediation Function (IWF) NFs. It enables a smooth transition for operators from 4G to 5G over time.</p> <p>Prerequisites : None</p>

Product	Sub product	Licensing Information
	Oracle Communications Cloud Native Core, Diameter Routing Agent - per 25K Active Subscribers	<p>Description: This subproduct adds the following features to the Oracle Communications Cloud Native Core. The Diameter Routing Agent (DRA) provides ability to route diameter messages between Network Functions (NF) in the 4G network</p> <p>Prerequisites: The following license is prerequisite to license and use Oracle Communications Cloud Native Core, Diameter Routing Agent - per 25K Active Subscribers: Oracle Communications Common Signaling - per Signaling Unit - per Message per Second</p>
	Oracle Communications Cloud Native Core, InterWorking and Mediation Function - per 25K Active Subscribers	<p>Description: This subproduct adds the following features to the Oracle Communications Cloud Native Core. The InterWorking and Mediation (IWF) Function provides Interworking and mediation function between HTTP ó HTTP and HTTP ó Diameter that allow access to the services and capabilities provided by network entities.</p> <p>Prerequisites: The following license is prerequisite to license and use Oracle Communications Cloud Native Core, InterWorking and Mediation Function - per 25K Active Subscribers: Any one of the Cloud Native Core network function, except Oracle Communications Cloud Native Core, Network Function Cloud Native Environment. Customer must purchase a license of InterWorking and Mediation Function (IWF) for each separately purchased Network Function (NF) where the customer requires IWF whether deploying all functions on one node or on separate nodes. When licensed in the Routing and Selection offering, pricing includes the use of IWF for the following five functions deployed in the same node: Service Communication Proxy (SCP), Network Slice Selection Function (NSSF), Security Edge Protection Proxy (SEPP), and Network Exposure Function (NEF). IWF is not applicable to Network Repository Function (NRF).</p> <p>Counting Mechanism: IWF is used for either Interworking or Mediation.</p> <p>a) Interworking use case: IWF counts unique device identifiers as it processes messages</p> <p>b) Mediation use case: the subscriber count is based on the following ordered list of NFs:</p> <p>Ordered list of NFs:</p> <ul style="list-style-type: none"> • SCP, if present • NRF, if present • Else, a 3rd party database

Product	Sub product	Licensing Information
	Oracle Communications Cloud Native Core, Network Exposure Function - per 25K Active Subscribers	<p>Description: This subproduct adds the following features to the Oracle Communications Cloud Native Core.</p> <p>The Network Exposure Function (NEF) provides RESTful APIs that allow access to the services and capabilities provided by network entities and securely exposed by NEF.</p> <p>The NEF Northbound interface supports the following procedures:</p> <ul style="list-style-type: none"> • Procedures for Monitoring • Procedures for Device Triggering • Procedures for resource management of Background Data Transfer • Procedures for Communication Pattern Parameters Provisioning • Procedures for Packet Flow Description Management • Procedures for Traffic Influence <p>Prerequisites: None</p> <p>Counting Mechanism: NEF counts unique device identifiers as it processes messages</p>
	Oracle Communications Cloud Native Core, Network Repository Function - per 25K Active Subscribers	<p>Description: This subproduct adds the following features to the Oracle Communications Cloud Native Core.</p> <p>The Network Repository Function (NRF) supports management and discovery services and the management services allow for Network Function (NF) instances to be Introduced/Updated/Removed in the 5G core without manual configuration. More NRF developments will come as part of future releases.</p> <p>Prerequisites: None</p> <p>Counting Mechanism: If SLF is deployed in addition to the NRF: the SLF counts unique device identifiers as it processes messages.</p> <p>If SLF is not deployed: the subscriber count is based on the following ordered list of NFs:</p> <p>Ordered list of NFs:</p> <ul style="list-style-type: none"> • SCP, if present • Else, a 3rd party database

Product	Sub product	Licensing Information
	Oracle Communications Cloud Native Core, Network Slice Selection Function - per 25K Active Subscribers	<p>Description: This subproduct adds the following features to the Oracle Communications Cloud Native Core. The Network Slice Selection Function (NSSF) provides an important capability to bring network resource utilization efficiency, deployment flexibility and support fast growing over the top (OTT) application and services .</p> <p>Prerequisites: None</p> <p>Counting Mechanism: The subscriber count is based on the following ordered list of NFs:</p> <p>Ordered list of NFs:</p> <ul style="list-style-type: none"> • SCP, if present • NRF, if present • Else, a 3rd party database
	Oracle Communications Cloud Native Core, Policy Control Function - per 25K Active Subscribers	<p>Description: This subproduct adds the following features to the Oracle Communications Cloud Native Core. The Policy Control Function (PCF) allows the customer to support centralized policy management in their 5G core network.</p> <p>Prerequisites: None.</p> <p>Counting Mechanism: PCF counts unique device identifiers as it processes messages.</p>
	Oracle Communications Cloud Native Core, Policy and Charging Rules Function - per 25K Active Subscribers	<p>Description: This subproduct adds the following features to the Oracle Communications Cloud Native Core. This functionality provides the Right to Use the Cloud Native Core Policy and Charging Rules Function (cnPCRF). The cnPCRF allows the customer to support centralized policy management in their 4G core network. It includes PCRF functionality.</p> <p>Prerequisites: None.</p> <p>Counting Mechanism: cnPCRF counts unique device identifiers as it processes messages.</p>
	Oracle Communications Cloud Native Core, Routing and Selection Domain - per 25K Active Subscribers	<p>Description: Routing and Selection domain consists of six Cloud Native Core functions: Service Communication Proxy (SCP), Network Repository Function (NRF), Network Exposure Function (NEF), Network Slice Selection Function (NSSF), Security Edge Protection Proxy (SEPP), and InterWorking and Mediation Function (IWF).</p> <p>Prerequisites: None</p>

Product	Sub product	Licensing Information
	Oracle Communications Cloud Native Core, Security Edge Protection Proxy - per 25K Active Subscribers	<p>Description: This subproduct adds the following features to the Oracle Communications Cloud Native Core.</p> <p>The Security Edge Protection Proxy (SEPP) is a nontransparent proxy that supports message filtering and policing on inter-PLMN control-plane interfaces and topology hiding for the PLMN network. A SEPP function should perform the firewall role for transactions between domains. Given that the SEPP is the point where integrity protection and encryption are applied, the SEPP has visibility into each aspect of a transaction.</p> <p>Prerequisites: None</p> <p>Counting Mechanism: SEPP counts unique device identifiers as it processes messages.</p>
	Oracle Communications Cloud Native Core, Service Communication Proxy - per 25K Active Subscribers	<p>Description: This subproduct adds the following features to the Oracle Communications Cloud Native Core.</p> <p>The Service Communication Proxy (SCP) addresses introduction of 5G Service Based Architecture and the usage of HTTP/2 for signaling. Provides congestion control in cases of flooding and at the same time protect servers from being overloaded. Facilitates traffic prioritization to ensure that the higher priority traffic is addressed in overload situations Uniform Authorization/Authentication mechanism in the network Simplifies the network and provider better visibility into the health of the network. Reduces the connection mesh to a manageable number of connections, thereby decreasing the chances of failure.</p> <p>Prerequisites: None</p> <p>Counting Mechanism: SCP counts unique device identifiers as it processes messages.</p>

Product	Sub product	Licensing Information
	Oracle Communications Cloud Native Core, Subscriber Location Function –per 25K Active Subscribers	<p>Description:</p> <p>This subproduct adds the following feature to the Oracle Communications Cloud Native Core.</p> <p>The Subscriber Location Function (SLF) is an entity of 5G network which it is used to identify a subscriber to a specific network function. This license is based on per 25k active subscribers perpetual.</p> <p>Prerequisites:</p> <p>The following licenses are prerequisite to license and use Oracle Communications Cloud Native Core, Subscriber Location Function –per 25K Active Subscribers:</p> <ul style="list-style-type: none"> • Oracle Communications Cloud Native Core, Service Communication Proxy - 25K Active Subscribers • Oracle Communications Cloud Native Core, Network Repository Function - 25K Active Subscribers • Oracle Communications Cloud Native Core, Security Edge Protection Proxy - 25K Active Subscribers <p>Counting Mechanism: SLF counts unique device identifiers as it processes messages.</p>
	Oracle Communications Cloud Native Core, Unified Data Management - per 25K Active Subscribers	<p>Description: This subproduct adds the following features to the Oracle Communications Cloud Native Core.</p> <p>The Unified Data Management Function (UDM) is a functional entity that supports access to the data storage. It offers services to Access and Mobility Management Function (AMF), Session Management Function (SMF), Short Message Service Function (SMSF), Network Exposure Function (NEF), and Authentication Server Function (AUSF). The services include Subscription data storage, Context data management service, Authentication service in collaboration with AUSF. Subscription data management includes accessing the subscription data in the Unified Data Repository (UDR), delivering relevant data to the Network Functions (NFs) serving the UE (AMF, SMF) and updating the UE location and serving nodes (e.g. AMF) in the UDR. This license is based on per 25k active subscribers perpetual.</p> <p>Prerequisites: None</p> <p>Counting Mechanism: UDM counts unique device identifiers that it has activated</p>

Product	Sub product	Licensing Information
	Oracle Communications Cloud Native Core, Unified Data Repository - per 25K Active Subscribers	<p>Description: This subproduct adds the following features to the Oracle Communications Cloud Native Core.</p> <p>The Unified Data Repository (UDR) is a functional entity that acts as a single logical repository of user data and is unique from Application Front End's perspective. Entities which do not store user data and that need to access user data stored in the UDR are collectively known as application front ends.</p> <p>Prerequisites: None</p> <p>Counting Mechanism: UDR counts unique device identifiers that it has activated</p>
	Oracle Communications Cloud Native Core, Unstructured Data Storage Function - per 25K Active Subscribers	<p>Description: This subproduct adds the following features to the Oracle Communications Cloud Native Core.</p> <p>The Unstructured Data Storage Function (UDSF) is a functional entity of 5G network where the Network Functions can store/retrieve "unstructured" data. It supports data storage for stateless network functions. This data is based on the state information of different NFs, intermediate representation of data crossing different radio technologies, session related data etc. This license is based on per 25k active subscribers perpetual.</p> <p>Prerequisites: The following licenses are prerequisite to license and use Oracle Communications Cloud Native Core, Unstructured Data Storage Function – per 25K Active Subscribers:</p> <ul style="list-style-type: none"> • Oracle Communications Cloud Native Core, Unified Data Repository - 25K Active Subscribers <p>Counting Mechanism: Since UDR is a prerequisite for UDSF. UDR counts unique device identifiers that it has activated.</p>

Product	Sub product	Licensing Information
	Oracle Communications Common Signaling, Automated Test Tools and Scripts - Per Node	<p>Description: The sub-product adds the following features to the Oracle Communications Cloud Native Core Network Functions.</p> <p>The Automated Test Tools and Scripts license provides tools and scripts for functional and light performance testing needs in lab environment and is licensed to only be used on Test/lab platforms.</p> <p>From a license perspective, this SKU is applicable only to Network Function SKUs and not to the features.</p> <p><i>License quantity requirement is based on number of network functions (NFs) and number of system under testing (SUT). It can be calculated by multiplying number of network functions (NFs) and number of system under testing (SUT) .</i></p> <p>Prerequisites: The following licenses are prerequisite to license and use Oracle Communications Common Signaling, Automated Test Tools and Scripts – per Node Any Oracle Communications Cloud Native Core Network Function, except:</p> <ul style="list-style-type: none"> • Oracle Communications Cloud Native Core, Network Function Cloud Native Environment – 25K Active Subscribers • Oracle Communications Cloud Native Core, Interworking and Mediation Function – 25K Active Subscribers • Oracle Communications Cloud Native Core, Subscriber Location Function – per 25K Active Subscribers

 **Note:**

25K Active Subscribers: It is defined as twenty-five thousand unique subscribers provisioned and activated or processed by the network function in a calendar month. A Subscriber is defined as (a) unique device identifier processed by the network function, (b) unique device identifier processed by a defined, external network function, (c) active entities in the subscriber database. The total number of active subscribers shall be equal to all applicable types of subscribers listed above, as defined for the network function.

 **Note:**

NB-IoT: Programs licensed under NB-IoT are specifically for processing traffic related to "Internet of Things" (IOT) or "Machine to Machine" (M2M) devices (including, by way of example, consumer appliances such as refrigerators, utility meters, etc.), and you may not use such programs for processing traffic related to wireless services, real-time services, broadband services, wireline telephone or data subscription services.

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Third-Party Notices and/or Licenses

Commercial Software

Commercial software products or components distributed in Oracle Communications Cloud Native Core are identified in the following table along with the applicable licensing information

Provider	Component(s)	Licensing Information
N/A	N/A	N/A

Open Source or Other Separately Licensed Software

Required notices for open source or other separately licensed software products or components distributed in Oracle Communications Cloud Native Core are identified in the following sections along with the applicable licensing information. Additional notices and/or licenses may be found in the included documentation or readme files of the individual third party software.

The sections below identify the open source components used by each Oracle Communications Cloud Native Core subproduct. The licensing information can be found in section **Cloud Native Core Licensing Information**.

Cloud Native Environment 1.6.0 Components

Elasticsearch - OSS 7.6.1	python 2.7.5-86.0.1
helm, Version: 2.16.1	Python-setuptools 0.9.8-7
Kubernetes 1.17.5	tar 1.26-35
Kubespary 2.13.0	

Binding Support Function 1.5.0 Components

Commons IO 2.6	jackson-datatype-jsr310 2.11.0
Guava 29.0	jackson-databind 2.11.0
HttpComponents HttpClient 4.5.12	jetty-reactive-httpclient 1.1.2
jackson-annotations 2.11.0	Logback 1.3.0-alpha5
jackson-core 2.11.0	

Cloud Native Core Console 1.3.0 Components

AspectJ 1.9.5	jjwt 0.10.7
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bucket4j 4.8.0	jsr305 3.0.2
Commons Beanutils 1.9.4	Keycloak 10.0.2
Commons Codec 1.14	Kubernetes Java Client 7.0.0
Commons IO 2.7	Log4J 2.13.1
DropWizard Metrics 4.1.10.1	Log4J 2.13.3
GSON 2.8.6	Lombok 1.18.12
Guava 29.0	Micrometer 1.5.2
Hazelcast 3.12.5	Micrometer Registry Prometheus 1.3.6
Hazelcast Discovery Plugin for Kubernetes 1.5.3	netty 4.1.46.Final
hazelcast-kubernetes 1.5.3	OpenTracing API for Java 0.33.0
HikariCP 3.4.5	OpenTracing Spring Jaeger Starter 3.1.2
HttpComponents HttpClient 4.5.12	OpenTracing Spring Jaeger Web Starter 3.0.1
jackson-annotations 2.11.1	reactor-netty 0.9.5
jackson-core 2.11.1	Simple Logging Facade for Java (SLF4J) 1.7.30
jackson-databind 2.11.1	Spring Boot 2.3.1
jackson-datatype-joda 2.11.0	spring-boot-starter-oauth2-client 2.2.4.RELEASE
jackson-datatype-jsr310 2.11.1	spring-boot-starter-oauth2-resource-server 2.2.4.RELEASE
JCache Reference Implementation 1.1.1	spring-boot-starter-web 2.2.4.RELEASE
jersey-client 2.31	Spring Cloud Starter Gateway 2.2.1
Jersey-core 2.31	spring-cloud-starter-kubernetes-config 1.1.2
jersey-hk2 2.31	Spring Framework 5.2.7.RELEASE
Jetty 9.4.27.v20200227	Springfox 3.0.0
jetty-reactive-httpclient 1.1.4	springfox-swagger-ui 2.9.2

Diameter Routing Agent 1.6.0 Components

Guava 28.1	Spring Boot 2.2.4.RELEASE
HttpClient 4.5.7	spring-boot-starter-actuator 2.2.4.RELEASE
jackson-core 2.10.0	spring-boot-starter-log4j2 2.2.4.RELEASE
JSON-Java 20180813	spring-boot-starter-test 2.2.4.RELEASE
Kubernetes Java Client library 4.0.0	spring-boot-starter-web 2.2.4
Micrometer 1.1.4	

InterWorking and Mediation Function 1.5.0 Components

dom4j 2.1.3	OpenTracing Spring Jaeger Web Starter 2.0.3
Drools 7.32.0.Final	Spring Boot 2.2.4.RELEASE
jackson-databind 2.10.2	spring-boot-autoconfigure 2.2.4
Micrometer 1.1.4	spring-boot-starter-data-jpa 2.2.4.RELEASE
OkHttp 4.2.2	spring-boot-starter-web 2.2.4.RELEASE

Network Exposure Function 1.2.0 Components

Guava 27.0.1	Nginx 1.14.2
HSQLDB 2.4.1	OpenTracing Spring Jaeger Starter 0.1.4
HttpClient 4.5.7	OpenTracing Spring Web 0.3.2
jackson-datatype-joda 2.9.6	SLF4J-1.7.25
JavaScript Extension Toolkit (JET) 5.1.0	Spring Boot 2.1.2
Kong 1.0.3	Springfox 2.9.2
Micrometer 1.0.5	-

Network Repository Function 1.8.0 Components

bucket4j 4.8.0	Log4J 2.13.1
client-java 8.0.2	Log4J 2.13.3
Commons Beanutils 1.9.4	Logback 1.3.0-alpha5
Commons IO 2.6	Lombok 1.18.12
dnsjava 3.2.2	Micrometer Registry Prometheus 1.5.1
fastjson 1.2.73	netty 4.1.50.Final
Flask 1.1.2	OkHttp 4.7.2
GSON 2.8.6	OpenTracing Spring Jaeger Starter 3.1.2
Guava 29.0	OpenTracing Spring Jaeger Web Starter 2.0.3
unicorn 20.0.4	OpenTracing Spring Jaeger Web Starter 3.0.1
Hazelcast 3.12.5	OWASP Dependency Check 5.2.4
Hazelcast Discovery Plugin for Kubernetes 1.5.3	PyMySQL 0.9.3
HttpComponents HttpClient 4.5.12	Reactor Core 3.3.5.RELEASE
ipaddress 5.2.1	Reactor Core 3.3.7.RELEASE
jackson-datatype-joda 2.11.0	reactor-netty 0.9.8
JCache Reference Implementation 1.1.1	Spring Boot 2.3.1.RELEASE
jersey-hk2 2.31	Spring Cloud Starter Gateway 2.2.3
Jetty 9.4.29.v20200521	Spring Framework 5.2.7.RELEASE
Jetty 9.4.30.v20200611	Springfox 2.9.2
jetty-reactive-httpclient 1.1.2	springfox-swagger-ui 2.9.2
jjwt 0.10.7	spring-boot-starter-oauth2-resource-server 2.2.4
kotlin-stdlib 1.4.0	spring-boot-starter-oauth2-client 2.2.4
Kubernetes Java Client 7.0.0	spring-cloud-starter-kubernetes 1.1.2.RELEASE
Kubernetes Python Client 11.0.0	spring-cloud-starter-kubernetes-config 1.1.2.RELEASE

Network Slice Selection Function 1.4.0 Components

jackson-annotations 2.10.0	OWASP Dependency Check 5.2.4
jackson-core 2.10.0	Spring Boot 2.2.6.RELEASE

jackson-databind 2.10.0	spring-boot-starter-actuator 2.2.6.RELEASE
Kubernetes Java Client 7.0.0	spring-boot-starter-data-jpa 2.2.6.RELEASE
Micrometer 1.1.4	spring-boot-starter-test 2.2.6.RELEASE
OkHttp 4.2.2	spring-boot-starter-undertow 2.2.6.RELEASE
OpenTracing Spring Jaeger Web Starter 3.0.1	spring-boot-starter-web 2.2.6.RELEASE

Cloud Native Core Policy 1.8.0 Components

akka-cluster-sharding 2.6.7	jersey-hk2 2.31
AspectJ 1.9.5	jersey-media-json-binding 2.31
Avro 1.10.0	Jetty 9.4.30.v20200611
Brave 5.11.2	jetty-reactive-httpclient 1.1.4
brave-opentracing 0.36.2	JLine 3.15.0
caffeine 2.8.5	jsr305 3.0.2
Commons Beanutils 1.9.4	Kubernetes Java Client 8.0.2
Commons Codec 1.14	Log4J 2.13.3
Commons CSV 1.8	Logback 1.3.0-alpha5
Commons IO 2.7	logstash-logback-encoder 6.4
Commons Lang 3.10	Lombok 1.18.12
Commons Pool 2.8.0	Micrometer 1.5.2
DropWizard Metrics 4.1.10.1	MyBatis Spring Boot Starter 2.1.3
fastjson 1.2.73	OkHttp 4.7.2
GSON 2.8.6	OpenTracing API for Java 0.33.0
Guava 29.0	OpenTracing Spring Jaeger Starter 3.1.2
HikariCP 3.4.5	OpenTracing Spring Jaeger Web Starter 3.0.1
HSQLDB 2.5.1	Prometheus Java Simpleclient 0.9.0
HttpComponents HttpClient 4.5.12	reactor-core 3.3.7.RELEASE
HttpCore 4.4.13	Simple Logging Facade for Java (SLF4J) 1.7.30
influxdb-java 2.19	Spring Boot 2.3.1
jackson-annotations 2.11.1	Spring Cloud Contract 2.2.3.RELEASE
jackson-core 2.11.1	spring-cloud-stream 3.0.6.RELEASE
jackson-databind 2.11.1	Spring Framework 5.2.7.RELEASE
jackson-datatype-joda 2.11.0	Springfox 3.0.0
jackson-datatype-jsr310 2.11.1	spring-kafka 2.5.3.RELEASE
Java DogStatsD Client 2.10.2	WireMock 2.27.1
Java Uuid Generator 4.0.1	XStream 1.4.12
jersey-client 2.31	Zipkin 2.21.2
Jersey-core 2.31	zipkin-reporter-java 2.15.0

Security Edge Protection Proxy 1.3.0 Components

Commons-Lang 3.9	Nimbus JOSE+JWT 8.8
------------------	---------------------

jackson-annotations 2.10.2	OkHttp 4.2.2
jackson-core 2.10.2	Spring Boot 2.2.4.RELEASE
jackson-databind 2.10.2	spring-boot-autoconfigure 2.2.4
jackson-dataformat-yaml 2.10.2	Spring-boot-starter 2.2.4
JSON-Java 20190722-6b6e8e8	spring-boot-starter-undertow 2.2.4.RELEASE
JsonPath 2.4.0	spring-boot-starter-web 2.2.4
Kubernetes Java Client 7.0.0	

Service Communication Proxy 1.8.0 Components

bucket4j 4.8.0	Kubernetes Java Client 8.0.2
dnsjava 3.2.2	Log4J 2.13.1
Hazelcast 3.12.5	Micrometer Registry Prometheus 1.5.1
Hazelcast Discovery Plugin for Kubernetes 1.5.3	netty 4.1.50.Final
HttpComponents HttpClient 4.5.12	OkHttp 4.2.2
ipaddress 5.2.1	OpenTracing Spring Jaeger Web Starter 2.0.3
Istio 1.1.17	reactor-netty 0.9.8
jackson-databind 2.10.2	Spring Boot 2.3.0.RELEASE
jackson-dataformat-yaml 2.10.2	Spring Cloud Starter Gateway 2.2.3
jackson-datatype-joda 2.10.2	Spring Retry 1.2.5.RELEASE
JCache Reference Implementation 1.1.1	Springfox 2.9.2
Jetty 9.4.27.v20200227	spring-boot-starter-oauth2-client 2.2.4
jetty-reactive-httpclient 1.1.2	spring-boot-starter-oauth2-resource-server 2.2.4
jjwt 0.10.7	spring-cloud-starter-kubernetes 1.1.2.RELEASE
JSON-Java 20200518	spring-cloud-starter-kubernetes-config 1.1.2.RELEASE
json-patch 1.12	springfox-swagger-ui 2.9.2
Kubernetes Java Client 7.0.0	

Unified Data Management 1.1.0 Components

Commons IO 2.6	OkHttp 4.2.2
HttpClient 4.5.7	Spring Boot 2.2.4.RELEASE
HttpClient 4.5.10	spring-boot-starter 2.2.4
jackson-databind 2.10.2	spring-boot-starter-actuator 2.2.4.RELEASE
JSON-Java 20190722	spring-boot-starter-log4j2 2.2.4.RELEASE
JsonPath 2.4.0	spring-boot-starter-test 2.2.4.RELEASE
JSON Schema 1.12.1	spring-boot-starter-undertow 2.2.4.RELEASE
Kubernetes Java Client library 4.0.0	spring-boot-starter-web 2.2.4.RELEASE
Kubernetes Java Client library 7.0.0	Springfox 2.9.2
Micrometer 1.1.4	

Unified Data Repository 1.8.0 Components

Commons Beanutils 1.9.4	Spring Batch 4.2.4.RELEASE
Commons IO 2.6	Spring Boot 2.2.6.RELEASE
fastjson 1.2.73	spring-boot-starter 2.2.6
Guava 29.0	spring-boot-starter-actuator 2.2.6.RELEASE
HttpComponents HttpClient 4.5.10	spring-boot-starter-aop 2.2.6
jackson-databind 2.10.2	spring-boot-starter-batch 2.2.6
JSON Schema 1.12.1	spring-boot-starter-jdbc 2.2.6
JSON-Java 20200518	spring-boot-starter-log4j2 2.2.6.RELEASE
Kubernetes Java Client 8.0.2	spring-boot-starter-test 2.2.6.RELEASE
Micrometer Registry Prometheus 1.3.6	spring-boot-starter-undertow 2.2.6.RELEASE
OkHttp 4.7.2	spring-boot-starter-web 2.2.6.RELEASE
OpenTracing Spring Jaeger Starter 3.1.1	spring-integration-file 5.2.4.RELEASE 5.2.4
OpenTracing Spring Jaeger Web Starter 3.0.1	Springfox 2.9.2
OWASP Dependency Check 5.2.4	

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Apache 2.0	akka-cluster-sharding 2.6.5	APACHE 2.0 -See Appendix E
Apache 2.0	akka-cluster-sharding 2.6.7	APACHE 2.0 -See Appendix E

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Kubernetes	Helm 2.9.1	<p>APACHE 2.0 - See Appendix E</p> <p>----- Fourth Party dependencies: Package: cloud.google.com/go URL: https://code.google.com/go/cloud Version: 3b1ae45394a234c385be014e9a488f2bb6eef821 Person: Google APACHE 2.0 - See Appendix E</p> <p>----- Package: github.com/aokoli/goutils URL: https://github.com/aokoli/goutils Version: 9c37978a95bd5c709a15883b6242714ea6709e64 Person: @aokoli [Alex] APACHE 2.0 - See Appendix E</p> <p>----- Package: github.com/asaskevich/govalidator URL: https://github.com/asaskevich/govalidator Version: 7664702784775e51966f0885f5cd27435916517b Person: @asaskevich [Alex Saskevich] Copyright (c) 2014 Alex Saskevich MIT - See Appendix G</p> <p>----- Package: github.com/aws/aws-sdk-go URL: https://github.com/aws/aws-sdk-go Version: 760741802ad40f49ae9fc4a69ef6706d2527d62e Person: @aws [Amazon Web Services] APACHE 2.0 - See Appendix E</p> <p>----- Package: github.com/Azure/go-ansiterm URL: https://github.com/Azure/go-ansiterm Version: 19f72df4d05d31cbe1c56bfc8045c96babff6c7e Person: @Azure [Microsoft Azure] Copyright (c) 2015 Microsoft Corporation MIT - See Appendix G</p> <p>----- Package: github.com/Azure/go-autorest URL: https://github.com/Azure/go-autorest Version: e14a70c556c8e0db173358d1a903dca345a8e75e Person: @Azure [Microsoft Azure] APACHE 2.0 - See Appendix E</p> <p>----- Package: github.com/beorn7/perks URL: https://github.com/beorn7/perks Version: 3ac7bf7a47d159a033b107610db8a1b6575507a4 Person: @beorn7 [Björn Rabenstein] Copyright (C) 2013 Blake Mizerany MIT - See Appendix G</p> <p>----- Package: github.com/chai2010/gettext-go URL: https://github.com/chai2010/gettext-go Version: bf70f2a70fb1b1f36d90d671a72795984eab0fc</p>

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Provider	Component (s)	Licensing Information
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seancooley	ipaddress 5.0.2	<p>APACHE 2.0 - See Appendix E</p>

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FasterXML, LLC	jackson-core 2.9.8	COPYRIGHT: Copyright (c) 2007- Tatu Saloranta, tatu.saloranta@iki.fi APACHE 2.0 - See Appendix E

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Red Hat, Inc.	Keycloak 10.0.2	<p>Copyright 2016 Red Hat, Inc. and/or its affiliates and other contributors as indicated by the @author tags.</p> <p>Licensed under the Apache License, version 2.0.</p> <p>-----separator-----</p> <p>org.bouncycastle:bcprov-jdk15on:jar:1.65 org.bouncycastle:bcpkix-jdk15on:jar:1.65 Copyright (c) 2000 - 2020 The Legion of the Bouncy Castle Inc. (https://www.bouncycastle.org)</p> <p>Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:</p> <p>The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.</p> <p>THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.</p> <p>-----separator-----</p> <p>Fourth Party Dependencies Licensed under only Apache License, Version 2.0</p> <p>com.openshift:openshift-restclient-java:jar:8.0.0.Final Copyright (c) 2011 Red Hat, Inc. -- com.squareup.okhttp3:okhttp:jar:3.14.2 com.squareup.okio:okio:jar:1.17.2 Copyright 2019 Square, Inc. --</p>

Table 3-1 (Cont.) Cloud Native Core Licensing Information

Provider	Component (s)	Licensing Information
		<p>com.webauthn4j:webauthn4j-core:jar:0.10.2.RELEASE com.webauthn4j:webauthn4j-util:jar:0.10.2.RELEASE Copyright 2018 the original author or authors. -- io.reactivex.rxjava2:rxjava:jar:2.2.4 Copyright (c) 2016-present, RxJava Contributors. -- io.netty:netty-handler:jar:4.1.45.Final io.netty:netty-buffer:jar:4.1.45.Final io.netty:netty-transport:jar:4.1.45.Final io.netty:netty-resolver:jar:4.1.45.Final io.netty:netty-codec:jar:4.1.45.Final io.netty:netty-common:jar:4.1.45.Final io.netty:netty-transport-native-unix-common:jar:4.1.45.Final Copyright 2012 The Netty Project -- org.codehaus.plexus:plexus-component-annotations:jar:1.7.1 org.codehaus.plexus:plexus-utils:jar:3.1.0 org.codehaus.groovy:groovy-all:jar:2.4.12 Copyright (c) 2009 codehaus.org. -- org.codehaus.plexus:plexus-classworlds:jar:2.5.2 Copyright 2002 (C) The Codehaus. All Rights Reserved. -- org.codehaus.plexus:plexus-interpolation:jar:1.24 Copyright 2001-2008 Codehaus Foundation. -- com.github.stephenc:jcip:jcip-annotations:jar:1.0-1 Copyright 2013 Stephen Connolly. -- org.aesh:aesh:jar:2.4 org.aesh:readline:jar:2.0 Copyright 2014 Red Hat Inc. and/or its affiliates and other contributors -- org.fusesource.jansi:jansi:jar:1.18</p>

Table 3-1 (Cont.) Cloud Native Core Licensing Information

Provider	Component (s)	Licensing Information
		<p>Copyright (C) 2009-2017 the original author(s).</p> <p>--</p> <p>xerces:xercesImpl:jar:2.12.0.SP02</p> <p>Copyright © 1999-2020 The Apache Software Foundation. All Rights Reserved.</p> <p>--</p> <p>com.fasterxml.jackson.core:jackson-core:jar:2.10.1</p> <p>com.fasterxml.jackson.core:jackson-databind:jar:2.10.1</p> <p>com.fasterxml.jackson.core:jackson-annotations:jar:2.10.1</p> <p>com.fasterxml.jackson.dataformat:jackson-dataformat-cbor:jar:2.10.1</p> <p>com.fasterxml.classmate:jar:1.3.4</p> <p>org.infinispan:infinispan-core:jar:9.4.18.Final</p> <p>org.infinispan:infinispan-commons:jar:9.4.18.Final</p> <p>org.infinispan:infinispan-multimap:jar:9.4.18.Final</p> <p>org.infinispan:infinispan-cache-store-remote:jar:9.4.18.Final</p> <p>org.infinispan:infinispan-client-hotrod:jar:9.4.18.Final</p> <p>Copyright 2016 Red Hat, Inc. and/or its affiliates</p> <p>--</p> <p>org.jboss.resteasy:resteasy-jaxrs:jar:3.11.2.Final</p> <p>Copyright 2019 Red Hat, Inc. and/or its affiliates</p> <p>--</p> <p>org.apache.kerby:kerby-asn1:jar:2.0.0</p> <p>org.apache.commons:commons-collections4:jar:4.1</p> <p>org.apache.james:apache-mime4j:jar:0.6</p> <p>org.apache.santuario:xmlsec:jar:2.1.4</p> <p>org.apache.maven:maven-aether-provider:jar:3.3.9</p> <p>org.apache.maven:maven-artifact:jar:3.5.4</p> <p>org.apache.maven.plugin-tools:maven-plugin-annotations:jar:3.4</p> <p>org.apache.maven:maven-core:jar:3.3.9</p> <p>org.apache.maven:maven-model:jar:3.5.4</p> <p>org.apache.maven:maven-model-builder:jar:3.5.4</p>

Table 3-1 (Cont.) Cloud Native Core Licensing Information

Provider	Component (s)	Licensing Information
		<p>org.apache.maven:maven-plugin-api:jar:3.3.9 org.apache.maven:maven-repository-metadata:jar:3.5.4 org.apache.maven:maven-settings:jar:3.3.9 org.apache.maven:maven-settings-builder:jar:3.3.9 org.apache.maven:maven-builder-support:jar:3.5.4 org.apache.commons:commons-lang3:jar:3.9 org.apache.commons:commons-compress:jar:1.18 org.apache.httpcomponents:httpclient:jar:4.5.1 1 org.apache.httpcomponents:httpcore:jar:4.4.1 3 org.freemarker:freemarker:jar:2.3.29 commons-lang:commons-lang:jar:2.6 commons-logging:commons-logging:jar:1.2 commons-codec:commons-codec:jar:1.6 commons-io:commons-io:jar:2.6 <!-- ===== ===== Licensed to the Apache Software Foundation (ASF) under one or more contributor license agreements. See the NOTICE file distributed with this work for additional information regarding copyright ownership. The ASF licenses this file to you under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at http://www.apache.org/licenses/LICENSE-2.0 Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License. ===== ===== This software consists of voluntary contributions made by many individuals on behalf of the Apache Software Foundation. For more information on the Apache Software Foundation, please see <http://www.apache.org>.</p>

Table 3-1 (Cont.) Cloud Native Core Licensing Information

Provider	Component (s)	Licensing Information
		<pre> --> -- com.google.guava:guava:jar:25.0-jre com.google.code.findbugs:jsr305:jar:1.3.9 com.google.errorprone:error_prone_annotations:jar:2.1.3 com.google.j2objc:j2objc-annotations:jar:1.1 com.google.code.gson:gson:jar:2.8.2 <!-- Copyright 2011 Google Inc. All Rights Reserved. Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at http://www.apache.org/licenses/LICENSE-2.0 Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License. --> -- com.google.zxing:javase:jar:3.4.0 com.google.zxing:core:jar:3.4.0 <!-- Copyright (C) 2010 ZXing authors Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at http://www.apache.org/licenses/LICENSE-2.0 Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License. --> -- com.github.ua-parser:uap-java:jar:1.4.3 Copyright 2012 Twitter, Inc -- </pre>

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Provider	Component (s)	Licensing Information
		<p>org.yaml:snakeyaml:jar:1.20 Copyright (c) 2008, http://www.snakeyaml.org -- org.twitter4j:twitter4j-core:jar:4.0.7 Copyright 2007 Yusuke Yamamoto -- com.googlecode.javaewah:JavaEWAH:jar:1.1.6 com.googlecode.owasp-java-html-sanitizer:owasp-java-html-sanitizer:jar:20191001.1 (c) 2009-2016 Daniel Lemire (http://lemire.me/en/), Cliff Moon, David McIntosh (https://github.com/mctofu), Robert Becho (https://github.com/RBecho), Colby Ranger (https://github.com/crangeratgoogle), Veronika Zenz (https://github.com/veronikazenz), Owen Kaser (https://github.com/owenkaser), Gregory Ssi-Yan-Kai (https://github.com/gssiyankai), and Rory Graves (https://github.com/rorygraves) This code is licensed under Apache License, Version 2.0 (ASL2.0). (GPL 2.0 derivatives are allowed.) -- org.jboss.logging:jboss-logging:jar:3.4.1.Final net.bytebuddy:byte-buddy:jar:1.9.11 com.github.benmanes.caffeine:caffeine:jar:2.6.2 com.github.jai-imageio:jai-imageio-core:jar:1.4.0 Apache License, Version 2.0 -- org.jboss.logmanager:jboss-logmanager:jar:2.1.14.Final org.jboss.marshalling:jboss-marshalling:jar:2.0.9.Final org.jboss.marshalling:jboss-marshalling-osgi:jar:2.0.6.Final Copyright 2014 Red Hat, Inc. and/or its affiliates. -- org.jboss.remoting:jboss-remoting:jar:5.0.17.Final org.jboss.aesh:aesh:jar:0.66.19 org.jboss.resteasy:resteasy-client:jar:3.11.2.Final</p>

Table 3-1 (Cont.) Cloud Native Core Licensing Information

Provider	Component (s)	Licensing Information
		<p>org.jboss.resteasy:resteasy-jaxb-provider:jar:3.11.2.Final</p> <p>org.jboss.resteasy:resteasy-multipart-provider:jar:3.11.2.Final</p> <p>org.jboss.modules:jboss-modules:jar:1.10.0.Final</p> <p>org.jboss.logging:jboss-logging-processor:jar:2.2.1.Final</p> <p>org.jboss.logging:jboss-logging-annotations:jar:2.2.1.Final</p> <p>org.jboss.jdeparser:jdeparser:jar:2.0.3.Final</p> <p>org.jboss.classfilewriter:jboss-classfilewriter:jar:1.2.4.Final</p> <p>org.jboss.invocation:jboss-invocation:jar:1.5.2.Final</p> <p>org.jboss.marshalling:jboss-marshalling-river:jar:2.0.0.Final</p> <p>Copyright 2016, Red Hat, Inc., and individual contributors as indicated by the @author tags.</p> <p>-----separator-----</p> <p>org.codehaus.mojo:animal-sniffer-annotations:jar:1.14</p> <p>org.codehaus.woodstox:stax2-api:jar:4.2</p> <p>Copyright (c) 2009 codehaus.org.</p> <p>Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:</p> <p>The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.</p> <p>THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE</p>

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Provider	Component (s)	Licensing Information
		<p>OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.</p> <p>-----separator-----</p> <p>Fourth Party Dependencies Licensed only The BSD License</p> <p>antlr:antlr:jar:2.7.7</p> <p>ANTLR 4 License</p> <p>[The BSD License]</p> <p>Copyright (c) 2012 Terence Parr and Sam Harwell</p> <p>All rights reserved.</p> <p>Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met: Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.</p> <p>Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.</p> <p>Neither the name of the author nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.</p> <p>THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.</p> <p>-----separator-----</p>

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Provider	Component (s)	Licensing Information
		<p>Fourth Party Dependencies Licensed under the GNU Lesser General Public License v2.1 or later</p> <pre>--> org.jboss.msc:jboss-msc:jar:1.4.11.Final Copyright 2010, Red Hat, Inc., and individual contributors as indicated by the @author tags -- org.jboss.metadata:jboss-metadata-common:jar:13.0.0.Final org.jboss.metadata:jboss-metadata-web:jar:13.0.0.Final org.jboss.metadata:jboss-metadata-ear:jar:13.0.0.Final <!-- ~ JBoss, Home of Professional Open Source. ~ Copyright 2016, Red Hat, Inc., and individual contributors ~ as indicated by the @author tags. See the copyright.txt file in the ~ distribution for a full listing of individual contributors. ~ ~ This is free software; you can redistribute it and/or modify it ~ under the terms of the GNU Lesser General Public License as ~ published by the Free Software Foundation; either version 2.1 of ~ the License, or (at your option) any later version. ~ ~ This software is distributed in the hope that it will be useful, ~ but WITHOUT ANY WARRANTY; without even the implied warranty of ~ MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU ~ Lesser General Public License for more details. ~ ~ You should have received a copy of the GNU Lesser General Public ~ License along with this software; if not, write to the Free ~ Software Foundation, Inc., 51 Franklin St, Fifth Floor, Boston, MA</pre>

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Provider	Component (s)	Licensing Information
		<p>~ 02110-1301 USA, or see the FSF site: http://www.fsf.org.</p> <p>--> --</p> <p>org.hibernate:hibernate-core:jar:5.3.15.Final org.hibernate.common:hibernate-commons-annotations:jar:5.0.4.Final Copyright 2016 Red Hat, Inc. and/or its affiliates org.picketbox:picketbox:jar:5.0.3.Final © Copyright 2013 Red Hat, Inc. -----separator----- com.jcraft:jsch:jar:0.1.55 com.jcraft:jzlib:jar:1.1.3 JSch 0.0.* was released under the GNU LGPL license. Later, we have switched over to a BSD-style license. Copyright (c) 2002-2015 Atsuhiko Yamanaka, JCraft, Inc. All rights reserved. Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:</p> <ol style="list-style-type: none"> 1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer. 2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution. 3. The names of the authors may not be used to endorse or promote products derived from this software without specific prior written permission. <p>THIS SOFTWARE IS PROVIDED ``AS IS'' AND ANY EXPRESSED OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL JCRAFT, INC. OR ANY CONTRIBUTORS TO THIS SOFTWARE BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS</p>

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Kong Inc.	Kong 1.0.3	Copyright 2016-2018 Kong Inc. Licensed under the Apache License, Version 2.0 (the "License") APACHE 2.0 - See Appendix E

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Provider	Component (s)	Licensing Information
JetBrains	kotlin-stdlib 1.4.0	<p>TOP-LEVEL COPYRIGHT NOTICE for org.jetbrains.kotlin:kotlin-stdlib:1.4.0</p> <pre>/* * * Copyright 2010-2020 JetBrains s.r.o. and * Kotlin Programming Language contributors. * Use of this source code is governed by the * Apache 2.0 license that can be found in the * license/LICENSE.txt file. */ -----separator----- TOP-LEVEL LICENSE TEXT for org.jetbrains.kotlin:kotlin-stdlib:1.4.0 APACHE 2.0 - See Appendix E -----separator----- TOP-LEVEL Notice TEXT org.jetbrains.kotlin:kotlin-stdlib:1.4.0 ===== ===== === == NOTICE file corresponding to the section 4 d of == == the Apache License, Version 2.0, == == in this case for the Kotlin Compiler distribution. == ===== ===== === Kotlin Compiler Copyright 2010-2020 JetBrains s.r.o and respective authors and developers -----separator----- FOURTH-PARTY DEPENDENCY #1 org.jetbrains.kotlin:kotlin-stdlib-common:1.4.0 FOURTH-PARTY DEPENDENCY #1 Copyright Notice /* * Copyright 2010-2020 JetBrains s.r.o. and * Kotlin Programming Language contributors. * Use of this source code is governed by the * Apache 2.0 license that can be found in the * license/LICENSE.txt file. */ -----separator----- FOURTH-PARTY DEPENDENCY #2 org.jetbrains.annotations:13.0</pre>

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Provider	Component (s)	Licensing Information
		<p>FOURTH-PARTY DEPENDENCY #2 Copyright Notice /* * Copyright 2000-2020 JetBrains s.r.o. * * Licensed under the Apache License, Version 2.0 (the "License"); * you may not use this file except in compliance with the License. * You may obtain a copy of the License at * * https://www.apache.org/licenses/LICENSE-2.0 * * Unless required by applicable law or agreed to in writing, software * distributed under the License is distributed on an "AS IS" BASIS, * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. * See the License for the specific language governing permissions and * limitations under the License. */ -----separator----- FOURTH-PARTY DEPENDENCY #1 org.jetbrains.kotlin:kotlin-stdlib-common:1.4.0 FOURTH-PARTY DEPENDENCY #2 org.jetbrains:annotations:13.0 COMMON License Notice For Apache License, Version 2.0 - See Appendix E</p>

Table 3-1 (Cont.) Cloud Native Core Licensing Information

Provider	Component (s)	Licensing Information
Kubernetes	Kubernetes 1.17.5	<p>Kubernetes 1.9 and the following 4th party are under the</p> <p>Apache 2.0 License Listed in full below:</p> <p>"ImportPath": "cloud.google.com/go/internal", "Comment": "v0.1.0-115-g3b1ae45", "ImportPath": "github.com/Azure/azure-sdk-for-go "Comment": "v1.1.1-beta", "ImportPath": "github.com/armon/cirbuf", " Copyright (c) 2013 Armon Dadgar" "ImportPath": "github.com/asaskevich/govalidator", "Comment": "v4-12-g593d645", "Copyright (c) 2014 Alex Saskevich" ImportPath": "github.com/Azure/go-ansiterm", "Comment": "v9.1.0", "ImportPath": "github.com/NYTimes/gziphandler", "ImportPath": "github.com/abbot/go-http-auth", "ImportPath": "github.com/appc/spec/schema", "Comment": "v0.8.9-17-gfc380db", "ImportPath": "github.com/aws/aws-sdk-go "Comment": "v1.12.7", "ImportPath": "github.com/beorn7/perks/quantile", "ImportPath": "github.com/clusterhq/flocker-go", "ImportPath": "github.com/codedellemc/goscaleio" "ImportPath": "github.com/containerd/containerd" "Comment": "v1.0.0-beta.2-159-g27d450a0", "ImportPath": "github.com/containerd/networking", "Comment": "v0.6.0", "ImportPath": "github.com/coreos/etcd", "Comment": "v3.1.10", "ImportPath": "github.com/clusterhq/flocker-go", "ImportPath": "github.com/codedellemc/goscaleio", "ImportPath": "github.com/docker", "ImportPath": "github.com/euank/go-kmsg-parser/kmsgparser", "Comment": "v2.0.0", "ImportPath": "github.com/garyburd/redigo/internal", "Comment": "v1.0.0-1-gb8dc900", "ImportPath": "github.com/garyburd/redigo/redis", "Comment": "v1.0.0-1-gb8dc900", "ImportPath": "github.com/go-ini/ini", "Comment": "v1.25.4", "ImportPath": "github.com/go-openapi", "ImportPath": "github.com/golang", "ImportPath": "github.com/google/btree", "ImportPath": "github.com/google/cadvisor", "Comment": "v0.28.3", "ImportPath": "github.com/google/certificate-transparency", "ImportPath": "github.com/google/gofuzz", "ImportPath": "github.com/googleapis/gnostic", "ImportPath": "github.com/gophercloud/gophercloud", "ImportPath": "github.com/grpc-ecosystem/go-grpc-prometheus", "Comment": "v1.1-4-g2500245", "ImportPath": "github.com/grpc-ecosystem/grpc-gateway", "Comment": "v1.1.0-25-g84398b9",</p>

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Provider	Component (s)	Licensing Information
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Opentracing.io	OpenTracing API for Java 0.33.0	<p>opentracing-util: 0.33.0, Apache 2.0 opentracing-mock: 0.33.0, Apache 2.0 opentracing-api: 0.33.0, Apache 2.0 opentracing-noop: 0.33.0, Apache 2.0 Copyright 2016-2019 The OpenTracing Authors</p> <p>----- APACHE 2.0 - See Appendix E</p>

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opentracing-contrib	OpenTracing Spring Jaeger Starter 0.1.4	<p>APACHE 2.0 - See Appendix E 4th -party dependencies: jaeger-core v0.27.0 opentracing-api v0.31.0 opentracing-spring-tracer-configuration-starter v0.1.0 spring-boot-autoconfigure (optional) v1.5.12.RELEASE spring-boot-configuration-processor (optional) v1.5.12.RELEASE All are licensed under Apache 2.0. APACHE 2.0 - See Appendix E</p>

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opentracing-contrib	OpenTracing Spring Web 1.1.1	APACHE 2.0 - See Appendix E 4 th - party dependency: opentracing-web-servlet-filter v0.1.0 APACHE 2.0 - See Appendix E

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		<p>FOURTH-PARTY DEPENDENCY #7 com.fasterxml.jackson.module:jackson-module-parameter-names:2.9.9</p> <p>FOURTH-PARTY DEPENDENCY #8 com.zaxxer:HikariCP:3.2.0</p> <p>FOURTH-PARTY DEPENDENCY #9 io.undertow:undertow-core:2.0.23.Final</p> <p>FOURTH-PARTY DEPENDENCY #10 io.undertow:undertow-servlet:2.0.23.Final</p> <p>FOURTH-PARTY DEPENDENCY #11 io.undertow:undertow-websockets-jsr:2.0.23.Final</p> <p>FOURTH-PARTY DEPENDENCY #12 javax.validation:validation-api:2.0.1.Final</p> <p>FOURTH-PARTY DEPENDENCY #13 net.bytebuddy:byte-buddy:1.9.16</p> <p>FOURTH-PARTY DEPENDENCY #14 org.apache.logging.log4j:log4j-api:2.11.2</p> <p>FOURTH-PARTY DEPENDENCY #15 org.apache.logging.log4j:log4j-core:2.11.2</p> <p>FOURTH-PARTY DEPENDENCY #16 org.apache.logging.log4j:log4j-jul:2.11.2</p> <p>FOURTH-PARTY DEPENDENCY #17 org.apache.logging.log4j:log4j-slf4j-impl:2.11.2</p> <p>FOURTH-PARTY DEPENDENCY #18 org.jboss:jandex:2.0.5.Final</p> <p>FOURTH-PARTY DEPENDENCY #19 org.jboss.logging:jboss-logging:3.3.2.Final</p> <p>FOURTH-PARTY DEPENDENCY #20 org.springframework.boot:spring-boot-actuator:2.1.7.RELEASE</p> <p>FOURTH-PARTY DEPENDENCY #21 org.springframework.boot:spring-boot-actuator-autoconfigure:2.1.7.RELEASE</p> <p>FOURTH-PARTY DEPENDENCY #22 org.springframework.boot:spring-boot-autoconfigure:2.1.7.RELEASE</p> <p>FOURTH-PARTY DEPENDENCY #23 org.springframework.boot:spring-boot-starter:2.1.7.RELEASE</p> <p>FOURTH-PARTY DEPENDENCY #24 org.springframework.boot:spring-boot-starter-aop:2.1.7.RELEASE</p> <p>FOURTH-PARTY DEPENDENCY #25 org.springframework.boot:spring-boot-starter-jdbc:2.1.7.RELEASE</p> <p>FOURTH-PARTY DEPENDENCY #26 org.springframework.boot:spring-boot-starter-json:2.1.7.RELEASE</p>

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Table 3-1 (Cont.) Cloud Native Core Licensing Information

Provider	Component (s)	Licensing Information
		<pre> \--- com.fasterxml.jackson.datatype:jackson- datatype-jsr310:2.10.2 (*) \--- io.micrometer:micrometer-core:1.3.2 +--- org.hdrhistogram:HdrHistogram:2.1.11 \--- org.latencyutils:LatencyUtils:2.0.3 © 2019 Pivotal Software, Inc. All Rights Reserved ----- TOP-LEVEL LICENSE TEXT for org.springframework.boot:spring-boot- starter-actuator:jar:2.2.2.RELEASE:compile Apache License, Version 2.0 - See Appendix E ----- separator----- [FOURTH-PARTY DEPENDENCY #01] +- org.springframework.boot:spring-boot- starter:jar:2.2.2.RELEASE:compile [FOURTH-PARTY DEPENDENCY #02] +- io.micrometer:micrometer- core:jar:1.3.1:compile [FOURTH-PARTY DEPENDENCY #03] +- org.hdrhistogram:HdrHistogram:2.1.11:compil e [FOURTH-PARTY DEPENDENCY #04] \- org.latencyutils:LatencyUtils:2.0.3:compile [FOURTH-PARTY DEPENDENCY #05] +- org.springframework.boot:spring- boot-actuator- autoconfigure:jar:2.2.2.RELEASE:compile [FOURTH-PARTY DEPENDENCY #06] +- org.springframework:spring- core:jar:5.2.2.RELEASE:compile [FOURTH-PARTY DEPENDENCY #07] +- org.springframework:spring- jcl:jar:5.2.2.RELEASE:compile [FOURTH-PARTY DEPENDENCY #08] +- org.springframework:spring- context:jar:5.2.2.RELEASE:compile [FOURTH-PARTY DEPENDENCY #09] +- org.springframework:spring- aop:jar:5.2.2.RELEASE:compile [FOURTH-PARTY DEPENDENCY #10] +- org.springframework:spring- beans:jar:5.2.2.RELEASE:compile [FOURTH-PARTY DEPENDENCY #11] +- org.springframework:spring- expression:jar:5.2.2.RELEASE:compile [FOURTH-PARTY DEPENDENCY #12] +- org.springframework.boot:spring-boot- actuator:jar:2.2.2.RELEASE:compile </pre>

Table 3-1 (Cont.) Cloud Native Core Licensing Information

Provider	Component (s)	Licensing Information
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Table 3-1 (Cont.) Cloud Native Core Licensing Information

Provider	Component (s)	Licensing Information
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Pivotal Software, Inc	spring-boot-starter-actuator 2.2.6.RELEASE	<p>org.springframework.boot:spring-boot-starter-actuator:jar:2.2.2.RELEASE:compile © 2019 Pivotal Software, Inc. All Rights Reserved -----separator----- TOP-LEVEL LICENSE TEXT for org.springframework.boot:spring-boot-starter-actuator:jar:2.2.2.RELEASE:compile Apache License, Version 2.0 Apache License, Version 2.0 - See Appendix E</p> <p>[FOURTH-PARTY DEPENDENCY #01] +- org.springframework.boot:spring-boot-starter:jar:2.2.2.RELEASE:compile [FOURTH-PARTY DEPENDENCY #02] +- io.micrometer:micrometer-core:jar:1.3.1:compile [FOURTH-PARTY DEPENDENCY #03] +- org.hdrhistogram:HdrHistogram:2.1.11:compile [FOURTH-PARTY DEPENDENCY #04] \- org.latencyutils:LatencyUtils:2.0.3:compile [FOURTH-PARTY DEPENDENCY #05] +- org.springframework.boot:spring-boot-actuator-autoconfigure:jar:2.2.2.RELEASE:compile [FOURTH-PARTY DEPENDENCY #06] +- org.springframework:spring-core:jar:5.2.2.RELEASE:compile [FOURTH-PARTY DEPENDENCY #07] +- org.springframework:spring-jcl:jar:5.2.2.RELEASE:compile [FOURTH-PARTY DEPENDENCY #08] +- org.springframework:spring-context:jar:5.2.2.RELEASE:compile [FOURTH-PARTY DEPENDENCY #09] +- org.springframework:spring-aop:jar:5.2.2.RELEASE:compile [FOURTH-PARTY DEPENDENCY #10] +- org.springframework:spring-beans:jar:5.2.2.RELEASE:compile [FOURTH-PARTY DEPENDENCY #11] +- org.springframework:spring-expression:jar:5.2.2.RELEASE:compile [FOURTH-PARTY DEPENDENCY #12] +- org.springframework.boot:spring-boot-actuator:jar:2.2.2.RELEASE:compile [FOURTH-PARTY DEPENDENCY #13] +- com.fasterxml.jackson.datatype:jackson-datatype-jsr310:jar:2.10.1:compile [FOURTH-PARTY DEPENDENCY #14] +- com.fasterxml.jackson.core:jackson-annotations:jar:2.10.1:compile [FOURTH-PARTY DEPENDENCY #15] +- org.springframework.boot:spring-boot:jar:2.2.2.RELEASE:compile [FOURTH-PARTY DEPENDENCY #16] +-</p>

Table 3-1 (Cont.) Cloud Native Core Licensing Information

Provider	Component (s)	Licensing Information
		<p>com.fasterxml.jackson.core:jackson-databind:jar:2.10.1:compile [FOURTH-PARTY DEPENDENCY #17] +- com.fasterxml.jackson.core:jackson-core:2.10.1:compile [FOURTH-PARTY DEPENDENCY #18] \- org.springframework.boot:spring-boot-autoconfigure:jar:2.2.2.RELEASE:compile [FOURTH-PARTY DEPENDENCY #01] org.springframework.boot:spring-boot-starter:jar:2.2.2.RELEASE:compile [FOURTH-PARTY DEPENDENCY #01] COPYRIGHT NOTICE Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at https://www.apache.org/licenses/LICENSE-2.0 Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License</p> <p>[FOURTH-PARTY DEPENDENCY #02] io.micrometer:micrometer-core:jar:1.3.1:compile [FOURTH-PARTY DEPENDENCY #02] COPYRIGHT NOTICE Copyright 2019 Pivotal Software, Inc. Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at https://www.apache.org/licenses/LICENSE-2.0 Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.</p> <p>[FOURTH-PARTY DEPENDENCY #03] org.hdrhistogram:HdrHistogram:2.1.11:compile [FOURTH-PARTY DEPENDENCY #03] COPYRIGHT NOTICE Written by Gil Tene of Azul Systems, and released to the public domain, as explained at http://creativecommons.org/publicdomain/zero/1.0/</p> <p>[FOURTH-PARTY DEPENDENCY #04] org.latencyutils:LatencyUtils:2.0.3:compile [FOURTH-PARTY DEPENDENCY #04] COPYRIGHT NOTICE Written by Gil Tene of Azul Systems, and released to</p>

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		<p>the public domain, as explained at http://creativecommons.org/publicdomain/zero/1.0/</p> <p>[FOURTH-PARTY DEPENDENCY #05] org.springframework.boot:spring-boot-actuator-autoconfigure:jar:2.2.2.RELEASE:compile [FOURTH-PARTY DEPENDENCY #05] COPYRIGHT NOTICE Copyright 2012-2019 the original author or authors. Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at https://www.apache.org/licenses/LICENSE-2.0 Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.</p> <p>[FOURTH-PARTY DEPENDENCY #06] org.springframework:spring-core:jar:5.2.2.RELEASE:compile [FOURTH-PARTY DEPENDENCY #06] COPYRIGHT NOTICE Copyright 2002-2019 the original author or authors. Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at https://www.apache.org/licenses/LICENSE-2.0 Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.</p> <p>Common Copyright Notice for 7, 8, 9, 10, 11, 12 [FOURTH-PARTY DEPENDENCY #07] org.springframework:spring-jcl:jar:5.2.2.RELEASE:compile [FOURTH-PARTY DEPENDENCY #08] org.springframework:spring-context:jar:5.2.2.RELEASE:compile [FOURTH-PARTY DEPENDENCY #09] org.springframework:spring-aop:jar:5.2.2.RELEASE:compile [FOURTH-PARTY DEPENDENCY #10] org.springframework:spring-beans:jar:5.2.2.RELEASE:compile [FOURTH-PARTY DEPENDENCY #11] org.springframework:spring-expression:jar:5.2.2.RELEASE:compile</p>

Table 3-1 (Cont.) Cloud Native Core Licensing Information

Provider	Component (s)	Licensing Information
		<p>[FOURTH-PARTY DEPENDENCY #12] org.springframework.boot:spring-boot-actuator:jar:2.2.2.RELEASE:compile [FOURTH-PARTY DEPENDENCY #07, 08, 09, 10, 11, 12] COPYRIGHT NOTICE Copyright 2002-2019 the original author or authors. Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at https://www.apache.org/licenses/LICENSE-2.0 Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.</p> <p>[FOURTH-PARTY DEPENDENCY #13] com.fasterxml.jackson.datatype:jackson-datatype-jsr310:jar:2.10.1:compile [FOURTH-PARTY DEPENDENCY #13] COPYRIGHT NOTICE Copyright 2013 FasterXML.com Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at http://www.apache.org/licenses/LICENSE-2.0 Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the license for the specific language governing permissions and limitations under the license. This copy of Jackson JSON processor streaming parser/generator is licensed under the Apache (Software) License, version 2.0 ("the License"). See the License for details about distribution rights, and the specific rights regarding derivate works. You may obtain a copy of the License at: http://www.apache.org/licenses/LICENSE-2.0</p> <p>[FOURTH-PARTY DEPENDENCY #14] com.fasterxml.jackson.core:jackson-annotations:jar:2.10.1:compile [FOURTH-PARTY DEPENDENCY #14] COPYRIGHT NOTICE This copy of Jackson JSON processor annotations is licensed under the Apache (Software) License, version 2.0 ("the License"). See the License for details about distribution rights, and the specific rights regarding derivate works. You may obtain a</p>

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Provider	Component (s)	Licensing Information
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Table 3-1 (Cont.) Cloud Native Core Licensing Information

Provider	Component (s)	Licensing Information
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Table 3-1 (Cont.) Cloud Native Core Licensing Information

Provider	Component (s)	Licensing Information
		<p>Common License Notice for CC0 1.0 [FOURTH-PARTY DEPENDENCY #03] org.hdrhistogram:HdrHistogram:2.1.11:compile [FOURTH-PARTY DEPENDENCY #04] org.latencyutils:LatencyUtils:2.0.3:compile Creative Commons Legal Code CC0 1.0 Universal CREATIVE COMMONS CORPORATION IS NOT A LAW FIRM AND DOES NOT PROVIDE LEGAL SERVICES. DISTRIBUTION OF THIS DOCUMENT DOES NOT CREATE AN ATTORNEY-CLIENT RELATIONSHIP. CREATIVE COMMONS PROVIDES THIS INFORMATION ON AN "AS-IS" BASIS. CREATIVE COMMONS MAKES NO WARRANTIES REGARDING THE USE OF THIS DOCUMENT OR THE INFORMATION OR WORKS PROVIDED HEREUNDER, AND DISCLAIMS LIABILITY FOR DAMAGES RESULTING FROM THE USE OF THIS DOCUMENT OR THE INFORMATION OR WORKS PROVIDED HEREUNDER. Statement of Purpose The laws of most jurisdictions throughout the world automatically confer exclusive Copyright and Related Rights (defined below) upon the creator and subsequent owner(s) (each and all, an "owner") of an original work of authorship and/or a database (each, a "Work"). Certain owners wish to permanently relinquish those rights to a Work for the purpose of contributing to a commons of creative, cultural and scientific works ("Commons") that the public can reliably and without fear of later claims of infringement build upon, modify, incorporate in other works, reuse and redistribute as freely as possible in any form whatsoever and for any purposes, including without limitation commercial purposes. These owners may contribute to the Commons to promote the ideal of a free culture and the further production of creative, cultural and scientific works, or to gain reputation or greater distribution for their Work in part through the use and efforts of others. For these and/or other purposes and motivations, and without any expectation of additional consideration or compensation, the person associating CC0 with a Work (the "Affirmer"), to the extent that he or she is an owner of Copyright and Related Rights in the Work, voluntarily elects to apply CC0 to the Work and publicly distribute the Work under its terms, with knowledge of his or her Copyright and Related Rights in the Work and the meaning and intended legal effect of CC0 on</p>

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Table 3-1 (Cont.) Cloud Native Core Licensing Information

Provider	Component (s)	Licensing Information
		<p>#9 org.springframework.boot:spring-boot-autoconfigure:2.2.0.BUILD-SNAPSHOT FOURTH-PARTY DEPENDENCY</p> <p>#10 org.springframework.boot:spring-boot-starter:2.2.0.BUILD-SNAPSHOT COMMON COPYRIGHT NOTICE Copyright © 2019 Pivotal Software, Inc.. All rights reserved. FOURTH-PARTY DEPENDENCY</p> <p>#11 org.springframework:spring-aop:5.2.0.BUILD-SNAPSHOT FOURTH-PARTY DEPENDENCY</p> <p>#12 org.springframework:spring-beans:5.2.0.BUILD-SNAPSHOT FOURTH-PARTY DEPENDENCY</p> <p>#13 org.springframework:spring-context:5.2.0.BUILD-SNAPSHOT FOURTH-PARTY DEPENDENCY</p> <p>#14 org.springframework:spring-core:5.2.0.BUILD-SNAPSHOT FOURTH-PARTY DEPENDENCY</p> <p>#15 org.springframework:spring-expression:5.2.0.BUILD-SNAPSHOT FOURTH-PARTY DEPENDENCY</p> <p>#16 org.springframework:spring-jcl:5.2.0.BUILD-SNAPSHOT COMMON COPYRIGHT NOTICE Copyright 2002-2019 the original author or authors.</p> <p>FOURTH-PARTY DEPENDENCY #17 org.yaml:snakeyaml:1.23 FOURTH-PARTY DEPENDENCY #17 COPYRIGHT NOTICES /** * Copyright (c) 2008, http://www.snakeyaml.org * * Licensed under the Apache License, Version 2.0 (the "License"); * you may not use this file except in compliance with the License. * You may obtain a copy of the License at * * http://www.apache.org/licenses/LICENSE-2.0 * * Unless required by applicable law or agreed to in writing, software * distributed under the License is distributed on an "AS IS" BASIS, * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. * See the License for the specific language governing permissions and * limitations under the License. * // Copyright 2003-2010 Christian d'Heureuse, Inventec Informatik AG, Zurich, Switzerland // www.source-code.biz, www.inventec.ch/chdh // // This module is multi-licensed and may be used under the terms // of any of the following licenses: // // EPL, Eclipse Public License, V1.0 or later, http://www.eclipse.org/legal // LGPL, GNU Lesser General Public License, V2.1 or later, http://www.gnu.org/licenses/lgpl.html // GPL, GNU General Public License, V2</p>

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Provider	Component (s)	Licensing Information
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Provider	Component (s)	Licensing Information
		<p>#13 org.springframework:spring-context:5.2.0.BUILD-SNAPSHOT FOURTH-PARTY DEPENDENCY</p> <p>#14 org.springframework:spring-core:5.2.0.BUILD-SNAPSHOT FOURTH-PARTY DEPENDENCY</p> <p>#15 org.springframework:spring-expression:5.2.0.BUILD-SNAPSHOT FOURTH-PARTY DEPENDENCY</p> <p>#16 org.springframework:spring-jcl:5.2.0.BUILD-SNAPSHOT FOURTH-PARTY DEPENDENCY #17 org.yaml:snakeyaml:1.23 COMMON LICENSE NOTICE</p> <p>APACHE 2.0 - See Appendix E</p> <p>FOURTH-PARTY DEPENDENCY</p> <p>#19 org.hdrhistogram:HdrHistogram:2.1.11 FOURTH-PARTY DEPENDENCY #19 COPYRIGHT NOTICE Copyright © 2016. All rights reserved. FOURTH-PARTY DEPENDENCY #19 LICENSE NOTICE CREATIVE COMMONS CORPORATION IS NOT A LAW FIRM AND DOES NOT PROVIDE LEGAL SERVICES. DISTRIBUTION OF THIS DOCUMENT DOES NOT CREATE AN ATTORNEY-CLIENT RELATIONSHIP. CREATIVE COMMONS PROVIDES THIS INFORMATION ON AN "AS-IS" BASIS. CREATIVE COMMONS MAKES NO WARRANTIES REGARDING THE USE OF THIS DOCUMENT OR THE INFORMATION OR WORKS PROVIDED HEREUNDER, AND DISCLAIMS LIABILITY FOR DAMAGES RESULTING FROM THE USE OF THIS DOCUMENT OR THE INFORMATION OR WORKS PROVIDED HEREUNDER. Statement of Purpose The laws of most jurisdictions throughout the world automatically confer exclusive Copyright and Related Rights (defined below) upon the creator and subsequent owner(s) (each and all, an "owner") of an original work of authorship and/or a database (each, a "Work"). Certain owners wish to permanently relinquish those rights to a Work for the purpose of contributing to a commons of creative, cultural and scientific works ("Commons") that the public can reliably and without fear of later claims of infringement build upon, modify, incorporate in other works, reuse and redistribute as freely as possible in any form whatsoever and for any purposes, including without limitation commercial purposes. These owners may contribute to the Commons to promote the ideal of a free culture and the further</p>

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Pivotal Software, Inc	spring-boot-starter-web 2.1.7.RELEASE	<p>Copyright 2019 Pivotal Software, Inc. All Rights Reserved APACHE 2.0 - See Appendix E</p> <p>-----</p> <p>FOURTH-PARTY DEPENDENCY #1 com.fasterxml:classmate: 1.4.0 FOURTH-PARTY DEPENDENCY #1 COPYRIGHT NOTICES Copyright © 2012-2018 fasterxml.com. All rights reserved. Java ClassMate library was originally written by Tatu Saloranta (tatu.saloranta@iki.fi) Other developers who have contributed code are: * Brian Langel</p> <p>-----</p> <p>FOURTH-PARTY DEPENDENCY #2 com.fasterxml.jackson.core:jackson-annotations:2.9.0 FOURTH-PARTY DEPENDENCY #2 COPYRIGHT NOTICES Copyright © 2008-2017 FasterXML. All rights reserved.</p> <p>-----</p> <p>FOURTH-PARTY DEPENDENCY #3 com.fasterxml.jackson.core:jackson-core:2.9.9 FOURTH-PARTY DEPENDENCY #3 COPYRIGHT NOTICES Jackson JSON-processor. Copyright (c) 2007- Tatu Saloranta, tatu.saloranta@iki.fi # Jackson JSON processor Jackson is a high-performance, Free/Open Source JSON processing library. It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007. It is currently developed by a community of developers, as well as supported commercially by FasterXML.com. ## Licensing Jackson core and extension components may be licensed under different licenses. To find the details that apply to this artifact see the accompanying LICENSE file. For more information, including possible other licensing options, contact FasterXML.com (http://fasterxml.com).</p>

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Provider	Component (s)	Licensing Information
		<p>FOURTH-PARTY DEPENDENCY #11A org.springframework.boot:spring-boot:2.1.7.RELEASE</p> <p>FOURTH-PARTY DEPENDENCY #11B org.springframework.boot:spring-boot-autoconfigure:2.1.7.RELEASE</p> <p>COMMON COPYRIGHT NOTICE Copyright © 2019 Pivotal Software, Inc.. All rights reserved.</p> <p>-----</p> <p>FOURTH-PARTY DEPENDENCY #12 org.springframework:spring-aop:5.1.9.RELEASE</p> <p>FOURTH-PARTY DEPENDENCY #13 org.springframework:spring-beans:5.1.9.RELEASE</p> <p>FOURTH-PARTY DEPENDENCY #14 org.springframework:spring-context:5.1.9.RELEASE</p> <p>FOURTH-PARTY DEPENDENCY #15 org.springframework:spring-core:5.1.9.RELEASE</p> <p>FOURTH-PARTY DEPENDENCY #16 org.springframework:spring-expression:5.1.9.RELEASE</p> <p>FOURTH-PARTY DEPENDENCY #16A org.springframework:spring-jcl:5.1.9.RELEASE</p> <p>FOURTH-PARTY DEPENDENCY #17 org.springframework:spring-web:5.1.9.RELEASE</p> <p>FOURTH-PARTY DEPENDENCY #18 org.springframework:spring-webmvc:5.1.9.RELEASE</p> <p>COMMON COPYRIGHT NOTICE Copyright 2002-2019 the original author or authors.</p> <p>-----</p> <p>FOURTH-PARTY DEPENDENCY #19 org.hibernate.validator:hibernate-validator:6.0.17.Final</p> <p>FOURTH-PARTY DEPENDENCY #19 COPYRIGHT NOTICE Copyright 2009 IIZUKA Software Technologies Ltd</p> <p>-----</p> <p>FOURTH-PARTY DEPENDENCY #19A org.yaml:snakeyaml:1.23</p> <p>FOURTH-PARTY DEPENDENCY #19A COPYRIGHT NOTICES</p>

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Table 3-1 (Cont.) Cloud Native Core Licensing Information

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		<p>FOURTH-PARTY DEPENDENCY #9 org.jboss.logging:jboss-logging:3.3.2.Final</p> <p>FOURTH-PARTY DEPENDENCY #10 org.springframework.boot:spring-boot-starter:2.1.7.RELEASE</p> <p>FOURTH-PARTY DEPENDENCY #11 org.springframework.boot:spring-boot-starter-json:2.1.7.RELEASE</p> <p>FOURTH-PARTY DEPENDENCY #11A org.springframework.boot:spring-boot:2.1.7.RELEASE</p> <p>FOURTH-PARTY DEPENDENCY #11B org.springframework.boot:spring-boot-autoconfigure:2.1.7.RELEASE</p> <p>FOURTH-PARTY DEPENDENCY #12 org.springframework:spring-aop:5.1.9.RELEASE</p> <p>FOURTH-PARTY DEPENDENCY #13 org.springframework:spring-beans:5.1.9.RELEASE</p> <p>FOURTH-PARTY DEPENDENCY #14 org.springframework:spring-context:5.1.9.RELEASE</p> <p>FOURTH-PARTY DEPENDENCY #15 org.springframework:spring-core:5.1.9.RELEASE</p> <p>FOURTH-PARTY DEPENDENCY #16 org.springframework:spring-expression:5.1.9.RELEASE</p> <p>FOURTH-PARTY DEPENDENCY #16A org.springframework:spring-jcl:5.1.9.RELEASE</p> <p>FOURTH-PARTY DEPENDENCY #17 org.springframework:spring-web:5.1.9.RELEASE</p> <p>FOURTH-PARTY DEPENDENCY #18 org.springframework:spring-webmvc:5.1.9.RELEASE</p> <p>FOURTH-PARTY DEPENDENCY #19 org.hibernate.validator:hibernate-validator:6.0.17.Final</p> <p>FOURTH-PARTY DEPENDENCY #19A org.yaml:snakeyaml:1.23</p> <p>COMMON LICENSE NOTICE APACHE 2.0 - See Appendix E</p>

Table 3-1 (Cont.) Cloud Native Core Licensing Information

Provider	Component (s)	Licensing Information
Pivotal Software, Inc	spring-boot-starter-web 2.2.4	<p>Copyright 2012-2020 the original author or authors.</p> <p>-----</p> <p>org.springframework.boot:spring-boot-autoconfigure:jar:2.2.4.RELEASE</p> <p>org.springframework.boot:spring-boot-parent:pom:2.2.4.RELEASE</p> <p>org.springframework.boot:spring-boot-starter-json:jar:2.2.4.RELEASE</p> <p>org.springframework.boot:spring-boot-starter-logging:jar:2.2.4.RELEASE</p> <p>org.springframework.boot:spring-boot-starter-tomcat:jar:2.2.4.RELEASE</p> <p>org.springframework.boot:spring-boot-starter-validation:jar:2.2.4.RELEASE</p> <p>org.springframework.boot:spring-boot-starter-web:jar:2.2.4.RELEASE</p> <p>org.springframework.boot:spring-boot-starter:jar:2.2.4.RELEASE</p> <p>org.springframework.boot:spring-boot-starters:pom:2.2.4.RELEASE</p> <p>org.springframework.boot:spring-boot:jar:2.2.4.RELEASE</p> <p>org.springframework:spring-aop:jar:5.2.3.RELEASE</p> <p>org.springframework:spring-beans:jar:5.2.3.RELEASE</p> <p>org.springframework:spring-context:jar:5.2.3.RELEASE</p> <p>org.springframework:spring-core:jar:5.2.3.RELEASE</p> <p>org.springframework:spring-expression:jar:5.2.3.RELEASE</p> <p>org.springframework:spring-jcl:jar:5.2.3.RELEASE</p> <p>org.springframework:spring-web:jar:5.2.3.RELEASE</p> <p>org.springframework:spring-webmvc:jar:5.2.3.RELEASE</p> <p>Copyright 2012-2020 the original author or authors.</p> <p>Apache License, Version 2.0 See Appendix E</p> <p>-----</p> <p>com.fasterxml.jackson.core:jackson-annotations:jar:2.10.2</p> <p>com.fasterxml.jackson.core:jackson-core:jar:2.10.2</p>

Table 3-1 (Cont.) Cloud Native Core Licensing Information

Provider	Component (s)	Licensing Information
		<p>com.fasterxml.jackson.core:jackson-databind:jar:2.10.2</p> <p>com.fasterxml.jackson.datatype:jackson-datatype-jdk8:jar:2.10.2</p> <p>com.fasterxml.jackson.datatype:jackson-datatype-jsr310:jar:2.10.2</p> <p>com.fasterxml.jackson.module:jackson-module-parameter-names:jar:2.10.2</p> <p>com.fasterxml.jackson.module:jackson-modules-java8:pom:2.10.2</p> <p>com.fasterxml.jackson:jackson-base:pom:2.10.2</p> <p>com.fasterxml.classmate:jar:1.5.1</p> <p>com.fasterxml.oss-parent:pom:35</p> <p>Copyright 2009-2011 FasterXML, LLC. All rights reserved unless otherwise indicated.</p> <p>Copyright 2012 FasterXML.com</p> <p>Apache License 2.0</p> <p>-----</p> <p>org.apache.tomcat.embed:tomcat-embed-core:jar:9.0.30</p> <p>org.apache.tomcat.embed:tomcat-embed-el:jar:9.0.30</p> <p>org.apache.tomcat.embed:tomcat-embed-websocket:jar:9.0.30</p> <p>Copyright © 1999-2019 The Apache Software Foundation.</p> <p>Apache License 2.0</p> <p>-----</p> <p>org.jboss.jboss-parent:pom:34</p> <p>org.jboss.arquillian:arquillian-bom:pom:1.1.11.Final</p> <p>Copyright 2010-2018, Red Hat, Inc., and individual contributors</p> <p>Apache License 2.0</p> <p>-----</p> <p>org.jboss.shrinkwrap.descriptors:shrinkwrap-descriptors-bom:pom:2.0.0-alpha-8</p> <p>org.jboss.shrinkwrap.resolver:shrinkwrap-resolver-bom:pom:2.2.0</p> <p>org.jboss.shrinkwrap:shrinkwrap-bom:pom:1.2.3</p> <p>Copyright 2009-2013, Red Hat Middleware LLC, and individual contributors</p> <p>Apache License 2.0</p> <p>-----</p> <p>org.jboss.logging:jboss-logging:jar:3.4.1.Final</p>

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Table 3-1 (Cont.) Cloud Native Core Licensing Information

Provider	Component (s)	Licensing Information
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Provider	Component (s)	Licensing Information
		<p>[FOURTH-PARTY DEPENDENCY #17] +- org.springframework:spring-aop:jar:5.2.2.RELEASE:compile [FOURTH-PARTY DEPENDENCY #18] \- org.springframework:spring-expression:jar:5.2.2.RELEASE:compile</p> <p>[FOURTH-PARTY DEPENDENCY #01] org.springframework:spring-web:jar:5.2.2.RELEASE:compile [FOURTH-PARTY DEPENDENCY #01] COPYRIGHT NOTICE Copyright 2002-2019 the original author or authors. Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at https://www.apache.org/licenses/LICENSE-2.0 Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.</p> <p>[FOURTH-PARTY DEPENDENCY #02] org.springframework.boot:spring-boot-starter:jar:2.2.2.RELEASE:compile [FOURTH-PARTY DEPENDENCY #02] COPYRIGHT NOTICE Copyright © 2019 Pivotal Software, Inc. All Rights Reserved</p> <p>[FOURTH-PARTY DEPENDENCY #03] org.yaml:snakeyaml:jar:1.25:runtime [FOURTH-PARTY DEPENDENCY #03] COPYRIGHT NOTICE Copyright (c) 2008, http://www.snakeyaml.org Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at http://www.apache.org/licenses/LICENSE-2.0 Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License. Copyright 2003-2010 Christian d'Heureuse, Inventec Informatik AG, Zurich, Switzerland www.source-code.biz, www.inventec.ch/chdh This module is multi-licensed and may be used under the terms of any of the following licenses: EPL, Eclipse Public License, V1.0 or later, http://www.eclipse.org/legal LGPL, GNU Lesser General Public License, V2.1</p>

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Table 3-1 (Cont.) Cloud Native Core Licensing Information

Provider	Component (s)	Licensing Information
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Table 3-1 (Cont.) Cloud Native Core Licensing Information

Provider	Component (s)	Licensing Information
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Table 3-1 (Cont.) Cloud Native Core Licensing Information

Provider	Component (s)	Licensing Information
		<p>[FOURTH-PARTY DEPENDENCY #18] \- org.springframework:spring-expression:jar:5.2.2.RELEASE:compile Copyright 2002-2019 the original author or authors. Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at http://www.apache.org/licenses/LICENSE-2.0 Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.</p> <p>Common License Text for [FOURTH-PARTY DEPENDENCY #01] +- org.springframework:spring-web:jar:5.2.2.RELEASE:compile [FOURTH-PARTY DEPENDENCY #02] +- org.springframework.boot:spring-boot-starter:jar:2.2.2.RELEASE:compile [FOURTH-PARTY DEPENDENCY #03] \- org.yaml:snakeyaml:jar:1.25:runtime [FOURTH-PARTY DEPENDENCY #04] +- org.springframework.boot:spring-boot-starter-json:jar:2.2.2.RELEASE:compile [FOURTH-PARTY DEPENDENCY #05] +- com.fasterxml.jackson.datatype:jackson-datatype-jdk8:jar:2.10.1:compile [FOURTH-PARTY DEPENDENCY #06] \- com.fasterxml.jackson.module:jackson-module-parameter-names:jar:2.10.1:compile [FOURTH-PARTY DEPENDENCY #07] +- org.springframework.boot:spring-boot-starter-tomcat:jar:2.2.2.RELEASE:compile [FOURTH-PARTY DEPENDENCY #08] \- org.apache.tomcat.embed:tomcat-embed-core:jar:9.0.29:compile [FOURTH-PARTY DEPENDENCY #09] +- org.springframework.boot:spring-boot-starter-validation:jar:2.2.2.RELEASE:compile [FOURTH-PARTY DEPENDENCY #10] +- jakarta.validation:jakarta.validation-api:jar:2.0.1:compile [FOURTH-PARTY DEPENDENCY #11] \- org.hibernate.validator:hibernate-validator:jar:6.0.18.Final:compile [FOURTH-PARTY DEPENDENCY #12] +- org.jboss.logging:jboss-logging:jar:3.4.1.Final:compile [FOURTH-PARTY DEPENDENCY #13] \- com.fasterxml:classmate:jar:1.5.1:compile</p>

Table 3-1 (Cont.) Cloud Native Core Licensing Information

Provider	Component (s)	Licensing Information
		<p>[FOURTH-PARTY DEPENDENCY #14] +- org.springframework:spring-web:jar:5.2.2.RELEASE:compile [FOURTH-PARTY DEPENDENCY #15]</p> <p> \- org.springframework:spring-beans:jar:5.2.2.RELEASE:compile [FOURTH-PARTY DEPENDENCY #16]</p> <p> \- org.springframework:spring-webmvc:jar:5.2.2.RELEASE:compile [FOURTH-PARTY DEPENDENCY #17] +- org.springframework:spring-aop:jar:5.2.2.RELEASE:compile [FOURTH-PARTY DEPENDENCY #18]</p> <p> \- org.springframework:spring-expression:jar:5.2.2.RELEASE:compile</p> <p>Apache License, Version 2.0</p> <p>Apache License, Version 2.0 See Appendix E</p> <p>For Eclipse Public License - v 2.0, refer Appendix Y</p> <p>For GNU LESSER GENERAL PUBLIC LICENSE Version 2.1, refer Appendix T</p> <p>For GNU GENERAL PUBLIC LICENSE Version 2, refer Appendix B</p> <p>===== ===== EARLIER VERSION OF LICENSES AND COPYRIGHT NOTICES TEXT ===== =====</p> <p>===== The only known dependencies (direct & 4th party) that will be used at build/runtime based on "mvn dependency:tree" are +- org.springframework.boot:spring-boot-starter-web:jar:2.2.2.RELEASE:compile +- org.springframework.boot:spring-boot-starter:jar:2.2.2.RELEASE:compile +- jakarta.annotation:jakarta.annotation-api:jar:1.3.5:compile \- org.yaml:snakeyaml:jar:1.25:runtime +- org.springframework.boot:spring-boot-starter-json:jar:2.2.2.RELEASE:compile +- com.fasterxml.jackson.datatype:jackson-datatype-jdk8:jar:2.10.1:compile \- com.fasterxml.jackson.module:jackson-module-parameter-names:jar:2.10.1:compile +- org.springframework.boot:spring-boot-starter-tomcat:jar:2.2.2.RELEASE:compile \- org.apache.tomcat.embed:tomcat-embed-core:jar:9.0.29:compile +- org.springframework.boot:spring-boot-starter-validation:jar:2.2.2.RELEASE:compile +- jakarta.validation:jakarta.validation-api:jar:2.0.1:compile \- org.hibernate.validator:hibernate-validator:jar:6.0.18.Final:compile +-</p>

Table 3-1 (Cont.) Cloud Native Core Licensing Information

Provider	Component (s)	Licensing Information
		org.jboss.logging:jboss-logging:jar:3.4.1.Final:compile \- com.fasterxml:classmate:jar:1.5.1:compile +- org.springframework:spring-web:jar:5.2.2.RELEASE:compile \- org.springframework:spring-beans:jar:5.2.2.RELEASE:compile \- org.springframework:spring-webmvc:jar:5.2.2.RELEASE:compile +- org.springframework:spring-aop:jar:5.2.2.RELEASE:compile \- org.springframework:spring-expression:jar:5.2.2.RELEASE:compile Apache License, Version 2.0 See Appendix E For Eclipse Public License - v 2.0, refer Appendix Y

Table 3-1 (Cont.) Cloud Native Core Licensing Information

Provider	Component (s)	Licensing Information
Spring IO	spring-boot-starter-webflux 2.2.6.RELEASE	<p>org.springframework.boot:spring-boot-starter-webflux:jar:2.2.3.RELEASE:compile Copyright © 2020 Pivotal Software, Inc. All Rights Reserved</p> <p>Apache License, Version 2.0 See Appendix E</p> <p>The list of 4th party dependencies: [FOURTH-PARTY DEPENDENCY #01] +- org.springframework:spring-web:jar:5.2.3.RELEASE:compile [FOURTH-PARTY DEPENDENCY #02] +- org.springframework:spring-beans:jar:5.2.3.RELEASE:compile [FOURTH-PARTY DEPENDENCY #03] \- org.springframework:spring-core:jar:5.2.3.RELEASE:compile [FOURTH-PARTY DEPENDENCY #04] \- org.springframework:spring-jcl:jar:5.2.3.RELEASE:compile [FOURTH-PARTY DEPENDENCY #05] +- org.springframework:spring-webflux:jar:5.2.3.RELEASE:compile [FOURTH-PARTY DEPENDENCY #06] \- io.projectreactor:reactor-core:jar:3.3.2.RELEASE:compile [FOURTH-PARTY DEPENDENCY #07] \- org.reactivestreams:reactive-streams:jar:1.0.3:compile [FOURTH-PARTY DEPENDENCY #08] +- org.springframework.boot:spring-boot-starter:jar:2.2.3.RELEASE:compile [FOURTH-PARTY DEPENDENCY #09] +- org.springframework.boot:spring-boot-starter-json:jar:2.2.3.RELEASE:compile [FOURTH-PARTY DEPENDENCY #10] +- com.fasterxml.jackson.core:jackson-databind:jar:2.10.2:compile [FOURTH-PARTY DEPENDENCY #11] +- com.fasterxml.jackson.datatype:jackson-datatype-jdk8:jar:2.10.2:compile [FOURTH-PARTY DEPENDENCY #12] +- com.fasterxml.jackson.datatype:jackson-datatype-jsr310:jar:2.10.2:compile [FOURTH-PARTY DEPENDENCY #13] +- com.fasterxml.jackson.module:jackson-module-parameter-names:jar:2.10.2:compile [FOURTH-PARTY DEPENDENCY #14] +- org.springframework.boot:spring-boot-starter-reactor-netty:jar:2.2.3.RELEASE:compile [FOURTH-PARTY DEPENDENCY #15] +- org.glassfish:jakarta.el:jar:3.0.3:compile [FOURTH-PARTY DEPENDENCY #16] \- io.projectreactor.netty:reactor-netty:jar:0.9.3.RELEASE:compile [FOURTH-PARTY DEPENDENCY #17] +- io.netty:netty-codec-</p>

Table 3-1 (Cont.) Cloud Native Core Licensing Information

Provider	Component (s)	Licensing Information
		<p>http:jar:4.1.45.Final:compile [FOURTH-PARTY DEPENDENCY #18] +- io.netty:netty-common:jar:4.1.45.Final:compile [FOURTH-PARTY DEPENDENCY #19] +- io.netty:netty-buffer:jar:4.1.45.Final:compile [FOURTH-PARTY DEPENDENCY #20] +- io.netty:netty-transport:jar:4.1.45.Final:compile [FOURTH-PARTY DEPENDENCY #21] \- io.netty:netty-resolver:jar:4.1.45.Final:compile [FOURTH-PARTY DEPENDENCY #22] \- io.netty:netty-codec:jar:4.1.45.Final:compile [FOURTH-PARTY DEPENDENCY #23] +- io.netty:netty-codec-http2:jar:4.1.45.Final:compile [FOURTH-PARTY DEPENDENCY #24] +- io.netty:netty-handler:jar:4.1.45.Final:compile [FOURTH-PARTY DEPENDENCY #25] +- io.netty:netty-handler-proxy:jar:4.1.45.Final:compile [FOURTH-PARTY DEPENDENCY #26] \- io.netty:netty-codec-socks:jar:4.1.45.Final:compile [FOURTH-PARTY DEPENDENCY #27] \- io.netty:netty-transport-native-epoll:jar:linux-x86_64:4.1.45.Final:compile [FOURTH-PARTY DEPENDENCY #28] \- io.netty:netty-transport-native-unix-common:jar:4.1.45.Final:compile [FOURTH-PARTY DEPENDENCY #29] +- org.springframework.boot:spring-boot-starter-validation:jar:2.2.3.RELEASE:compile [FOURTH-PARTY DEPENDENCY #30] +- jakarta.validation:jakarta.validation-api:jar:2.0.2:compile [FOURTH-PARTY DEPENDENCY #31] \- org.hibernate.validator:hibernate-validator:jar:6.0.18.Final:compile [FOURTH-PARTY DEPENDENCY #32] \- org.synchronoss.cloud:nio-multipart-parser:jar:1.1.0:compile [FOURTH-PARTY DEPENDENCY #33] +- org.slf4j:slf4j-api:jar:1.7.30:compile [FOURTH-PARTY DEPENDENCY #34] \- org.synchronoss.cloud:nio-stream-storage:jar:1.1.3:compile [FOURTH-PARTY DEPENDENCY #01]org.springframework:spring-web:jar:5.2.3.RELEASE [FOURTH-PARTY DEPENDENCY #01]COPYRIGHT NOTICE Copyright 2002-2020 the original author or authors. Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at https://www.apache.org/</p>

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Table 3-1 (Cont.) Cloud Native Core Licensing Information

Provider	Component (s)	Licensing Information
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Table 3-1 (Cont.) Cloud Native Core Licensing Information

Provider	Component (s)	Licensing Information
		<p>PARTY DEPENDENCY #11]COPYRIGHT NOTICE Jackson is a high-performance, Free/Open Source JSON processing library. It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007. It is currently developed by a community of developers, as well as supported commercially by FasterXML.com Copyright (c) 2007- Tatu Saloranta, tatu.saloranta@iki.fi This copy of Jackson JSON processor module is licensed under the Apache (Software) License, version 2.0 ("the License"). See the License for details about distribution rights, and the specific rights regarding derivate works. You may obtain a copy of the License at: http://www.apache.org/licenses/LICENSE-2.0</p> <p>[FOURTH-PARTY DEPENDENCY #12]com.fasterxml.jackson.datatype:jackson-datatype-jsr310:jar:2.10.2:compile [FOURTH-PARTY DEPENDENCY #12]COPYRIGHT NOTICE Copyright 2013 FasterXML.com Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at http://www.apache.org/licenses/LICENSE-2.0 Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the license for the specific language governing permissions and limitations under the license. This copy of Jackson JSON processor streaming parser/generator is licensed under the Apache (Software) License, version 2.0 ("the License"). See the License for details about distribution rights, and the specific rights regarding derivate works. You may obtain a copy of the License at: http://www.apache.org/licenses/LICENSE-2.0</p> <p>[FOURTH-PARTY DEPENDENCY #13]com.fasterxml.jackson.module:jackson-module-parameter-names:jar:2.10.2:compile [FOURTH-PARTY DEPENDENCY #13]COPYRIGHT NOTICE Copyright 2013 FasterXML.com Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at http://www.apache.org/licenses/LICENSE-2.0 Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an</p>

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		<p>FOURTH-PARTY DEPENDENCY #40 org.springframework.cloud:spring-cloud-starter-gateway:2.1.2.RELEASE</p> <p>FOURTH-PARTY DEPENDENCY #41 org.springframework.security:spring-security-crypto:5.1.5.RELEASE</p> <p>FOURTH-PARTY DEPENDENCY #42 org.springframework.security:spring-security-rsa:1.0.7.RELEASE</p> <p>COMMON COPYRIGHT NOTICES Copyright © 2019 Pivotal Software, Inc.. All rights reserved.</p> <p>-----</p> <p>FOURTH-PARTY DEPENDENCY #43 org.synchronoss.cloud:nio-multipart-parser:1.1.0</p> <p>FOURTH-PARTY DEPENDENCY #43 COPYRIGHT NOTICES * Copyright (C) 2008 The Guava Authors * * Licensed under the Apache License, Version 2.0 (the "License"); Copyright (C) 2015 Synchronoss Technologies * Licensed under the Apache License, Version 2.0 (the "License");</p> <p>-----</p> <p>FOURTH-PARTY DEPENDENCY #44 org.synchronoss.cloud:nio-stream-storage:1.1.3</p> <p>FOURTH-PARTY DEPENDENCY #44 COPYRIGHT NOTICES /* * Copyright (C) 2015 Synchronoss Technologies * * Licensed under the Apache License, Version 2.0 (the "License");</p> <p>-----</p> <p>FOURTH-PARTY DEPENDENCY #45 org.springframework:spring-beans:5.1.8.RELEASE</p> <p>FOURTH-PARTY DEPENDENCY #45 COPYRIGHT NOTICES Copyright 2002-2019 the original author or authors. Licensed under the Apache License, Version 2.0 (the "License");</p> <p>-----</p>

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Provider	Component (s)	Licensing Information
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Table 3-1 (Cont.) Cloud Native Core Licensing Information

Provider	Component (s)	Licensing Information
		FOURTH-PARTY DEPENDENCY #13 io.netty:netty-codec-http:4.1.36.Final
		FOURTH-PARTY DEPENDENCY #14 io.netty:netty-codec-socks:4.1.36.Final
		FOURTH-PARTY DEPENDENCY #15 io.netty:netty-common:4.1.36.Final
		FOURTH-PARTY DEPENDENCY #16 io.netty:netty-handler:4.1.36.Final
		FOURTH-PARTY DEPENDENCY #17 io.netty:netty-handler-proxy:4.1.36.Final
		FOURTH-PARTY DEPENDENCY #18 io.netty:netty-resolver:4.1.36.Final
		FOURTH-PARTY DEPENDENCY #19 io.netty:netty-transport:4.1.36.Final
		FOURTH-PARTY DEPENDENCY #20 io.netty:netty-transport-native-epoll:4.1.36.Final
		FOURTH-PARTY DEPENDENCY #21 io.netty:netty-transport-native-unix-common:4.1.36.Final
		FOURTH-PARTY DEPENDENCY #22 io.projectreactor.addons:reactor-extra:3.2.3.RELEASE
		FOURTH-PARTY DEPENDENCY #23 io.projectreactor.netty:reactor-netty:0.8.9.RELEASE
		FOURTH-PARTY DEPENDENCY #24 javax.validation:validation-api:2.0.1.Final
		FOURTH-PARTY DEPENDENCY #25 org.apache.logging.log4j:log4j-api:2.11.2
		FOURTH-PARTY DEPENDENCY #26 org.apache.logging.log4j:log4j-to-slf4j:2.11.2
		FOURTH-PARTY DEPENDENCY #27 org.hibernate.validator:hibernate-validator:6.0.17.Final
		FOURTH-PARTY DEPENDENCY #28 org.jboss.logging:jboss-logging:3.3.2.Final
		FOURTH-PARTY DEPENDENCY #29 org.springframework.boot:spring-boot:2.1.6.RELEASE
		FOURTH-PARTY DEPENDENCY #30 org.springframework.boot:spring-boot-autoconfigure:2.1.6.RELEASE
		FOURTH-PARTY DEPENDENCY #31 org.springframework.boot:spring-boot-starter:2.1.6.RELEASE
		FOURTH-PARTY DEPENDENCY #32 org.springframework.boot:spring-boot-starter-json:2.1.6.RELEASE

Table 3-1 (Cont.) Cloud Native Core Licensing Information

Provider	Component (s)	Licensing Information
		FOURTH-PARTY DEPENDENCY #33 org.springframework.boot:spring-boot-starter-logging:2.1.6.RELEASE
		FOURTH-PARTY DEPENDENCY #34 org.springframework.boot:spring-boot-starter-reactor-netty:2.1.6.RELEASE
		FOURTH-PARTY DEPENDENCY #35 org.springframework.boot:spring-boot-starter-webflux:2.1.6.RELEASE
		FOURTH-PARTY DEPENDENCY #36 org.springframework.cloud:spring-cloud-commons:2.1.2.RELEASE
		FOURTH-PARTY DEPENDENCY #37 org.springframework.cloud:spring-cloud-context:2.1.2.RELEASE
		FOURTH-PARTY DEPENDENCY #38 org.springframework.cloud:spring-cloud-gateway-core:2.1.2.RELEASE
		FOURTH-PARTY DEPENDENCY #39 org.springframework.cloud:spring-cloud-starter:2.1.2.RELEASE
		FOURTH-PARTY DEPENDENCY #40 org.springframework.cloud:spring-cloud-starter-gateway:2.1.2.RELEASE
		FOURTH-PARTY DEPENDENCY #41 org.springframework.security:spring-security-crypto:5.1.5.RELEASE
		FOURTH-PARTY DEPENDENCY #42 org.springframework.security:spring-security-rsa:1.0.7.RELEASE
		FOURTH-PARTY DEPENDENCY #43 org.synchronoss.cloud:nio-multipart-parser:1.1.0
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		FOURTH-PARTY DEPENDENCY #45 org.springframework:spring-beans:5.1.8.RELEASE
		FOURTH-PARTY DEPENDENCY #46 org.springframework:spring-core:5.1.8.RELEASE
		FOURTH-PARTY DEPENDENCY #47 org.springframework:spring-web:5.1.8.RELEASE
		FOURTH-PARTY DEPENDENCY #48 org.springframework:spring-webflux:5.1.8.RELEASE
		FOURTH-PARTY DEPENDENCY #49 org.yaml:snakeyaml:1.23

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Provider	Component (s)	Licensing Information
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Provider	Component (s)	Licensing Information
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Table 3-1 (Cont.) Cloud Native Core Licensing Information

Provider	Component (s)	Licensing Information
		<p>FOURTH-PARTY DEPENDENCY #7 io.netty:netty-handler:4.1.46.Final</p> <p>FOURTH-PARTY DEPENDENCY #8 io.netty:netty-codec-http2:4.1.46.Final</p> <p>FOURTH-PARTY DEPENDENCY #9 io.netty:netty-handler:4.1.46.Final</p> <p>FOURTH-PARTY DEPENDENCY #10 io.netty:netty-codec-http:4.1.46.Final</p> <p>FOURTH-PARTY DEPENDENCY #11 io.netty:netty-handler-proxy: 4.1.46.Final</p> <p>FOURTH-PARTY DEPENDENCY #12 io.netty:netty-codec-socks:4.1.46.Final</p> <p>FOURTH-PARTY DEPENDENCY #13 io.netty:netty-transport-native-epoll: 4.1.46.Final</p> <p>FOURTH-PARTY DEPENDENCY #14 io.netty:netty-transport-native-unix-common:4.1.46.Final</p> <p>APACHE 2.0 - See Appendix E</p> <p>The Netty Project</p> <p>=====</p> <p>Please visit the Netty web site for more information: https://netty.io/</p> <p>Copyright 2014 The Netty Project</p> <p>The Netty Project licenses this file to you under the Apache License, version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at :</p> <p>Please refer to Apache License text mentioned under TOP-LEVEL LICENSE TEXT http://www.apache.org/licenses/LICENSE-2.0</p> <p>Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.</p> <p>Also, please refer to each LICENSE.<component>.txt file, which is located in the 'license' directory of the distribution file, for the license terms of the components that this product depends on.</p> <p>-----</p> <p>--> This product contains the extensions to Java Collections Framework which has been</p>

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Spring IO	spring-cloud-starter-kubernetes-config 1.0.3.RELEASE	<p>© 2020 Pivotal Software, Inc. All Rights Reserved ----- TOP-LEVEL LICENSE TEXT for org.springframework.cloud:spring-cloud-starter-kubernetes-config:1.0.3.RELEASE APACHE 2.0 - See Appendix E ----- FOURTH-PARTY DEPENDENCY #1 org.springframework.cloud:spring-cloud-kubernetes-core 1.0.3.RELEASE FOURTH-PARTY DEPENDENCY #2 org.springframework.cloud:spring-cloud-kubernetes-config 1.0.3.RELEASE FOURTH-PARTY DEPENDENCY #3 io.fabric8:kubernetes-client 4.1.0 FOURTH-PARTY DEPENDENCY #4 org.springframework.boot:spring-boot-autoconfigure 2.2.4.RELEASE FOURTH-PARTY DEPENDENCY #5 org.springframework.cloud:spring-cloud-context 2.2.1.RELEASE COMMON COPYRIGHT NOTICES Copyright © 2020 Pivotal Software, Inc.. All rights reserved. APACHE 2.0 - See Appendix E</p>

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springfox Project	springfox-swagger-ui 2.9.2	<p>Copyright 2015 the original author or authors. APACHE 2.0 - See Appendix E</p> <p>It has the following open source dependency: springfox-spring-web v2.9.2 :</p> <p>Copyright 2015 the original author or authors. APACHE 2.0 - See Appendix E</p> <p>see: https://github.com/springfox/springfox</p>

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Provider	Component (s)	Licensing Information
		spring-websocket org.springframework 5.2.3.RELEASE

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Provider	Component (s)	Licensing Information
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Spring IO	spring-kafka 2.2.5.RELEASE	Copyright 2018 the original author or authors. APACHE 2.0 - See Appendix E Below are 4th party dependencies. Springframework, v5.0.9.RELEASE, Apache 2.0 Copyright 2002-2018 the original author or authors. APACHE 2.0 - See Appendix E ++++++ + kafka, v2.0.0, Apache 2.0 Apache Kafka Copyright 2018 The Apache Software Foundation. APACHE 2.0 - See Appendix E ++++++ + Jackson, v2.9.6, Apache 2.0 APACHE 2.0 - See Appendix E ++++++ ++++++ json-path, v2.4.0, Apache 2.0 (Optional) Copyright 2017 Jayway APACHE 2.0 - See Appendix E

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The Apache Software Foundation	Tomcat Embedded 9.0.30	<p>APACHE 2.0 - See Appendix E</p> <p>-----</p> <p>Fourth party dependency: tomcat-annotations-api 9.0.30 (Apache 2.0)</p> <p>-----</p> <p>Copyright Apache Tomcat Copyright 1999-2019 The Apache Software Foundation</p> <p>-----</p> <p>tomcat-embed-websocket 9.0.30 (Apache 2.0)</p> <p>Copyright Apache Tomcat Copyright 1999-2019 The Apache Software Foundation</p>

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C

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 ===== File 2 of 38: config.GUESS

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===== File 8 of 38: ext/calendar: dow.c
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=====
 ===== File 12 of 38: ext/gd/libgd/README
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 ===== File 13 of 38: ext/gd/libgd/webpimg.c
 =====

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 ===== File 16 of 38: ext/json/JSON_parser.c
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===== File 17 of 38: ext/mbstring/libmbfl/filters/cp932_table.h
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===== File 18 of 38: ext/mbstring/oniguruma/enc/ascii.c
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```
===== File 19 of 38: ext/mbstring/oniguruma/enc/gb18030.c
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=====
 ===== File 21 of 38: ext/mbstring/ucgendat/ucgendat
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 ===== File 25 of 38: ext/standard/strnatcmp.c
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 ===== File 26 of 38: ext/xmlrpc/libxmlrpc/encodings.c
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 ===== File 27 of 38: ext/zip/lib/zip.h
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 ===== File 28 of 38: main/mergesort.c
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 ===== File 29 of 38: sapi/cli/php_http_parser.c
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===== File 30 of 38: sapi/fpm/fpm/fpm_log.c
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=====
 ===== File 34 of 38: win32/flock.c
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 ===== File 35 of 38: win32/php_stdint.h
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===== File 38 of 38: Zend/zend_strtod.c
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*

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*

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* <http://jqueryui.com>

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